PatentAlert 2011-06

Tarpaulins

WO201153150 - INSULATED TARPAULIN

O B WIIK AS (NO)DALGAARD LARS (NO)ERIKSSON LARS THOMAS

Published 2011-05-05 Priority date 2009-10-26 (NO)

The present invention regards an insulated tarpaulin and method for producing same insulated tarpaulin consisting of at least two layers of fabric further characterized by that at least a first layer of fabric has means for securing at least one piece of insulation to it and a second layer of fabric connected to said first layer of fabric and at least one valve attached to said tarpaulin.

EP2269815 - TARPAULIN FOR COVERING BIODEGRADABLE MATERIAL

INCABO S A

Published 2011-01-05 Priority date 2009-07-02 (EP)

The covering tarpaulin is constituted by a three-layered structure, an upper layer, an intermediate layer, and a lower layer, the latter layer being the one in contact and superimposed on the corresponding biodegradable material intended to be fermented to achieve its decomposition and thus obtain an agricultural fertilizer. The upper layer, and lower layer are made in polyester fabric with quadrille weave, preferably in taslan yarn having water repellent, fire resistant and antibacterial characteristics, while the nature of the intermediate layer is breathable and impermeable.

KR20100098210 - TARPAULIN AND MANUFACTURING METHOD THEREOF

LG HAUSYS

Published 2010-09-06 Priority date 2009-02-27 (KR)

PURPOSE: A tarpaulin and a manufacturing method thereof are provided are provided to prevent the migration, the evaporation, and the elution phenomenon of a plasticizer for securing the abrasion resistance and the cold resistance. CONSTITUTION: A tarpaulin comprises the following: a fabric sheet; a blend sheet formed on one or both sides of the fabric sheet; and an anti-stain layer formed on the blend sheet. The blend sheet contains a base resin, and a polymeric plasticizer with the number average molecular weight of 100,000 to 500,000. The polymeric plasticizer is selected from the group consisting of an ethylenically polymeric plasticizer, acrylonitrile butadiene rubber, thermoplastic polyurethane, chlorosulfonated polyethylene, and chlorinated polyethylene.

KR20100020777 - TARPAULIN AND MANUFACTURING METHOD THEREOF

LG HAUSYS

Published 2010-02-23 Priority date 2008-08-13 (KR)

PURPOSE: Tarpaulin and a manufacturing method thereof are provided to improve durability, abrasion resistance, cold resistance and weatherability by preventing migration, diffusion and elution of a plasticizer, and to reduce weight of the Tarpaulin. CONSTITUTION: Tarpaulin comprises a textile sheet(1) and a blend sheetμ. The blend sheet is formed on the both sides or one side of the textile sheet. The blend sheet contains base resin and the ethylene based polymer plasticizer having the molecular volume of 100,000 to 500,000. The textile sheet is one or more fiber selected from a group consisting of polyolefin fiber, polyester fiber and nylon fiber. The thickness of the fiber is 500 to 3,000 denier. The thickness of the textile is 50 to 500 μm.

FR2929302 - WATERPROOF TARPAULIN FOR SUNSHADE, HAS SEALED FILM FIXED ABOVE TISSUE OF TARPAULIN BY USING ANTI-UV TREATED ETHYLENE VINYL ACETATE ADHESIVE DEPOSIT WITH INCORPORATION OF GRILL AND BLOCKING INTERSTICES BETWEEN STRANDS AND TARPAULIN

RIEDEL PAUL (FR) (Inventor)

Published 2009-10-02 Priority date 2008-03-31 (FR)

The tarpaulin has a continuous sealed film fixed above a tissue of the tarpaulin by using anti-UV treated ethylene vinyl acetate adhesive deposit with incorporation of a mechanical reinforcement grill and exposed to the rain. The sealed film blocks interstices between strands and the tarpaulin. The sealed film is selected from an acrylic resin film compatible with acrylic fibers of a habitual sunshade, a vinyl fluoride film or an anti-UV treated polyester. A mono or multi-layered metallic reflector function is provided at an interior face of the sealed film.

KR100865175 - FABRICS MATERIALS FOR TARPAULIN AND PREPARING METHOD THEREOF

WONPOONG

Published 2008-10-24 Priority date 2008-07-25 (KR)

A fabrics materials for tarpaulin and a preparing method thereof are provided to prevent the pollutant from generating by using eco-friendly tarpaulin and PP (polypropylene) textile materials, and to lower the cost by recycling the raw materials, and to raise the workability. A base layer of the tarpaulin is used for the advertisements and the waterproof pack. The upper and the lower sides of the base layer are laminated by processed sheets. A plain weave material such as a cotton cloth or a ramie cloth is used as a warp and a weft. The warp or the weft is the fiber yarn of longitudinal and transverse directions composed of 18-30 filaments formed of 150-300 denier PP resin material. A PP liquid phase SOL is impregnated to the warp and the weft. The warp and the weft are woven to have double-lines arrangement structure at intervals of 3 or 5 millimeters, and constitute the fabrics having a diametric structure with double-lines. The warp only is woven to constitute the base layer with double-lines at intervals of 3 or 5 millimeters.

KR100861684 - PP FABRICS MATERIALS FOR TARPAULIN AND PREPARING METHOD THEREOF

WONPOONG

Published 2008-10-06 Priority date 2008-04-03 (KR)

A tarpaulin by using PP (Poly-Propylene) fabrics materials and a manufacturing method thereof are provided to lower the manufacture cost by recycling the raw materials, and to transport and store the manufactured goods easily, and to raise the productivity and the environment-friendliness. A warp used as a PP fiber and a ground fiber are equipped to a mounting tool respectively. The tension of the warp and the ground fiber is adjusted to 20-25 kg by creel tension. The tensions of the powder roller used as a transfer roller and the skating roller are adjusted to 10 kg and 150 kilograms respectively, and the RPM (Revolutions Per Minute) is adjusted to 200-250 rpm. One side of the warp and the ground fiber are inserted into a drop bar, and transferred, and wound around the warp winding roll and the ground fiber winding roll respectively. The warp winding roll is transferred to the winding plate of the warp knitting machine. Multiple bodies constitute a body part at 0.09 cm intervals. The body part has the split structure of 28 bodies in 1 inch (2.54 cm) lengths. The warps are inputted to every other bodies of the 28 bodies.

CN101250788 - METHOD FOR PRODUCING AIR PERMEABILITY FLAME-PROOF ANTISTATIC WATER-PROOF OIL-RESISTANT DACRON TARPAULIN

NANTONG ISO SPECIAL FABRIC

Published 2008-08-27 Priority date 2008-03-27 (CN)

The invention discloses a method for producing air permeability flame retardant antistatic water-proof oil-proof polyester fiber tarpaulin, which successively comprises the following steps: weaving grey fabric, introducing conductive silk fiber, dyeing, carrying out the flame retardant treatment, carrying out the water-proof and oil-proof treatments, stentering and definiting form, then obtaining the products. The invention has the advantages of simple production process and easy operation, and the produced tarpaulin has good air permeability, flame retardancy, antistatic performance, water-proof performance and oil-proof performance.

CN101158118 - METHOD FOR MANUFACTURING TARPAULIN

QINGDAO JIAOHE MECHANIC PLASTI

Published 2008-04-09 Priority date 2007-11-03 (CN)

The invention provides a manufacture method of water-proof sailcloth, which solves the problems of the prior art that manual work cost and management cost are added by large area occupied by creels. The technical proposal of the invention comprises processes that: (1) a film forming process; (2) a film of wound roll taking up process; (3) a wiredrawing frittering process S31; (4) an HDPE knitting process; (5) a coating process; and (6) a post handling process. The invention brings the existing close-knit process in the knitting process, thereby promoting the space efficiency and solving the limitation problem of materials.

EP2150409 - POLYOLEFINE TARPAULIN COMPOSITION AND PREPARING METHOD THEREOF

WONPOONG

Published 2010-02-10 Priority date 2008-03-18 (WO)

The present invention relates to a polyolefin tarpaulin composition and preparing method thereof (thermo-plastic polyolefin based tarpaulin and preparing process thereof), wherein the tarpaulin for photographic printing of the present invention provides a reinforced structure with united strength in the outside of tarpaulin, which represents a superior processing property that a photographic print sheet maybe easily coupled to the outside of the tarpaulin. Due to the constitution of a singular number of the photographic print surface, the photographic print surface is clearly printed to discriminate, therefore the prime cost is reduced and work efficiency improved. At the same time, the polyolefin tarpaulin composition and preparing method thereof (thermo-plastic polyolefin based tarpaulin and preparing process thereof) prevents crack states due to the elastic force of the base material, which reinforces cold-proof, weather-ability, and abrasion resistance. Especially, it prevents the generation of a pollutant that is a problem in PVC tarpaulin of the related art by creating eco-friendly material and gives no harm to a human body, and enables 100 % recycling as recycling raw material for reducing the cost price after using.

KR100835475 - HEAT INSULATION TARPAULIN AND PROCESS FOR PREPARING THE SAME

KIM TAE HO (KR) (Inventor)

Published 2008-06-09 Priority date 2007-05-09 (KR)

Heat insulation tarpaulin and a manufacturing method are provided to save the cooling and heating cost by cutting off heat transmitted from the outside and maintaining the internal heat and to extend the life time by restraining discoloration and pollution. Heat insulation tarpaulin is composed of woven fabrics and a heat insulating layer containing polyvinyl chloride or polyolefin and ceramic microscopic hollow sphere powder. The heat insulating layer is formed on at least one surface of the woven fabric. A strain-resistant layer is formed on the heat insulating layer. The heat insulating layer contains hollow sphere powder of 20-30 wt.% for polyvinyl chloride or polyolefin of 100wt.%. In addition, the heat insulating layer contains a UV (Ultraviolet) blocking agent and a flame retardant.

DE102007011758 - MATERIAL COMPOUND FOR VEHICLE TARPAULINS, COMPRISES PLASTIC LAMINAR ELASTOMERS (ELASTOMER VULCANIZATE) WITH EMBEDDED OR APPLIED SOLID CARRIER FOR E.G. COMMERCIAL MOTOR VEHICLES, TRAILER AND SUPPORTER AND THE PROTECTION OF LOAD GOODS

ERNESTIN THOMAS

Published 2008-09-11 Priority date 2007-03-10 (DE)

Material compound for vehicle tarpaulins, comprises plastic laminar elastomers (elastomer vulcanizate) with embedded or applied solid carrier for commercial motor vehicles, trailer, curtain sider, supporter and other one means of transport, which a durable waterproof fabric and/or tarpaulin material for transport and the protection of load goods. where the material strength for the operating conditions, is depends upon the strength and arrangement of the filaments and the structure of the basic fabric (chain and shot).

KR20080082048 - TARPAULIN SHEET HAVING SUPERIOR LIGHT DIFFUSION EFFECT USING A DIFFUSION SHEET HAVING CONCAVE PORTIONS INSTEAD OF A PVC SHEET

LG CHEMICAL

Published 2008-09-11 Priority date 2007-03-07 (KR)

A tarpaulin sheet having superior light diffusion effect is provided to enhance transmittance and ensure wide view angle by scattering lights through a concave portion of a diffusion sheet. A tarpaulin sheet includes a diffusion sheet having a diffusion layer with a concave structure. The tarpaulin sheet is formed sequentially a PVC (Polyvinyl Chloride) sheet, fabric, and the diffusion sheet. The concave structure is formed in a half-spherical type, a polygon type, and a combination of the half-spherical and polygon types.

KR20070012753 - TARPAULIN FOR PROJECTOR SCREEN WITH A REFLECTION EMBOSSING AND MANUFACTURING METHOD

OK EUN HO (KR) (Inventor)

Published 2007-01-26 Priority date 2007-01-08 (KR)

A tarpaulin for a projector screen with an aluminum light diffusing embossing and a method for manufacturing the same are provided to express a clear image by using a reflection of a wide visual angle. In a tarpaulin for a projector screen with an aluminum light diffusing embossing, a base tarpaulin is formed in the order of a PVC sheet, an adhesive, a glass fiber textile, an adhesive, and a PVC dark slide. A PVC reflection embossing sheet in which embossing of an arc-shaPE having a circumference angle of 120 to 150 degrees and a diameter of 50 to 300 micrometers is adjacently arranged on the base tarpaulin is bonded to the base tarpaulin by an adhesive.

FR2907823 - COVER FOR SWIMMING POOL FOR USE DURING BAD SEASON, HAS TARPAULIN THAT FREELY AND COMPLETELY RESTS ON ENTIRE WATER SURFACE, WHERE TARPAULIN IS MADE OF OPEN LOOPED FABRIC, WHICH HAS POLYPROPYLENE OF DENSITY LOWER THAN THAT OF WATER

CHANET JACQUES (FR) (Inventor)

Published 2008-05-02 Priority date 2006-10-31 (FR)

The cover has a tarpaulin that freely and completely rests on entire water surface, where an edge of the tarpaulin follows and links with an inner edge of a swimming pool. The tarpaulin is made of an open looped fabric, which is constituted of a material e.g. polypropylene, of density lower than that of water, where the tarpaulin edge has a seam and a rectilinear bead, which is made of an expanded alveolar material or elastic material.

BE1017272 - TRUCK TRAILER ROOF TARPAULIN, INCLUDES YARNS EXTENDING AT ANGLE AND PARALLEL TO TARPAULIN LENGTH DIRECTION

VAN HOOL NAAMLOZE VENNOOTSCHAP

Published 2008-05-06 Priority date 2006-09-13 (BE)

The tarpaulin fabric includes yarns which are oriented at an angle relative to the roof tarpaulin length direction. The yarns comprise a synthetic material and preferably extend at 45° relative to the tarpaulin length direction. Also present in the fabric are yarns extending parallel to the tarpaulin length direction.

KR100788821 - MANUFACTURING METHOD FOR IMPROVED TARPAULIN

QINGDAO GYOHA EN TECHNOLOGY PLASTICS

Published 2007-12-27 Priority date 2006-07-27 (KR)

A method for manufacturing a tarpaulin fabric is provided to improve the spatial efficiency and the draw-ability of materials, by inducing a conventional tyPE minute cutting process to a weaving process. A method for manufacturing a tarpaulin fabric comprises a film spinning process, a film weaving process, and a tarpaulin coating process. The film spinning process includes a film forming process for forming a film, a film drawing process, and a film winding process. The film weaving process includes a drawing and cutting process for drawing and cutting the film into warp strands and weft strands, an HDPE (High-Density PolyEthylene) film weaving process for weaving an HDPE woven layer using the warp strands and the weft strands, and a woven fabric layer winding process. The tarpaulin coating process includes an LDPE (Low-Density PolyEthylene) coating process for coating an LDPE layer on the HDPE woven layer to prepare a tarpaulin fabric, and a tarpaulin winding process. A fineness of the HDPE (High-Density PolyEthylene) is 150-200 denier.

KR100788820 - TARPAULIN WEAVING MANUFACTURING DEVICE USING POLY ETHYLENE FILM

QINGDAO GYOHA EN TECHNOLOGY PLASTICS

Published 2007-12-27 Priority date 2006-07-06 (KR)

An apparatus for weaving a tarpaulin fabric is provided to skip a process of minutely cutting a film into strands and winding the strands on a corn, thereby maximizing workability and spatial usability, by supplying a roll tyPE film to a weaving unit so as to perform a process of minutely cutting the film into strands and a process of weaving a tarpaulin fabric simultaneously. A roll tyPE film supply unit has at least one a film roll in a width direction, and selectively supplies a film from the film roll according to width of a tarpaulin fabric. The film roll is formed by melting a high-density polyethylene material. A strand forming unit minutely cuts the film, which is supplied from the film supply unit, in the width direction by using plural knife blades, thereby forming weft strands. A strand supply unit draws and supplies the weft strands uniformly while the weft strands are guided by a roller. A weaving unit weaves the tarpaulin fabric using warp strands and the weft strands. A roll tyPE winding unit winds the woven tarpaulin fabric in a roll type.

FR2893330 - COATED TEXTILE FOR FORMING E.G. TARPAULIN, HAS CONTINUOUS TRACKS THAT ARE MADE OF ELECTRICALLY CONDUCTIVE MATERIAL DEPOSITED ON COATING LAYER AND DEFINE CONTINUOUS PATTERN FORMING UNDULATIONS IMBRICATED ON EACH OTHER

FERRARI S TISSAGE & ENDUCT

Published 2007-05-18 Priority date 2005-11-17 (FR)

The textile has continuous tracks that are made of an electrically conductive material deposited on a coating layer. The tracks are connected at an end by an electric bridge. The tracks form an electric resistance that is along a textile zone. The tracks are connected to a device that is sensible to modification of the resistance formed by the tracks. The tracks define a continuous pattern forming undulations imbricated on each other. The undulations are remote from each other by a distance in the order of a decimeter.

KR20060062086 - METHOD OF MANUFACTURING DOUBLE-WALL TARPAULIN PRODUCT AND TARPAULIN PRODUCT BY THE SAME WITH TEXTILE COATING STRUCTURE OF SPACED FABRIC AND TARPAULIN SHEETS

LG CHEMICAL

Published 2006-06-12 Priority date 2004-12-03 (KR)

PURPOSE: A method of manufacturing double-wall tarpaulin product is provided to produce a product with tarpaulin structure as a textile coating structure effective to offer excellent mechanical property, and improve interfacial adhesiveness between a spaced fabric and tarpaulin sheet, by combining either or both sides of the spaced fabric with the tarpaulin sheets to form the textile coating structure.
CONSTITUTION: The double-wall tarpaulin manufacturing method comprises the steps of: applying adhesive to one side of a tarpaulin sheet; combining the coated tarpaulin sheet with a spaced fabric to form a laminate; compressing the laminate; heating and drying the compressed laminate; and cooling the dried laminate. The method further includes the steps of: attaching alternative tarpaulin sheet which is coated with adhesive to the spaced fabric side of the cooled laminate; compressing a both-sided laminate which is combined with tarpaulin sheets at the both sides, to both sides of the spaced fabric; heating and drying the both-sided laminate after compression; and cooling the both-sided laminate after heating and drying.

DE202004012271 - TARPAULIN FOR CAMOUFLAGING OBJECTS AND PERSONS COMPRISES A TEXTILE TOP LAYER WITH CAMOUFLAGE PRINTING, AN AT LEAST APPROXIMATELY OPAQUE MEMBRANE, AND A WOVEN OR KNITTED LAYER

TEXPLORER

Published 2004-10-28 Priority date 2004-08-05 (DE)

The tarpaulin for camouflaging objects and persons, in particular, in the visible range as well as in the ultraviolet and near-infrared ranges comprises a textile top layer with camouflage printing, an at least approximately opaque membrane laminated to the top layer, and a woven or knitted layer.

JP2006045685 - TARPAULIN MADE OF POLYOLEFIN-BASED RESIN EXCELLENT IN HEAT-RESISTANT CREEPING PROPERTY

HIRAOKA

Published 2006-02-16 Priority date 2004-07-30 (JP)

PROBLEM TO BE SOLVED: To provide tarpaulin made of a polyolefin-based resin having good flexibility, enabling high-frequency welder fusion, having high breakage strength of a high-frequency welder fusing part, excellent in a heat-resistant creeping property and suitable, especially as a material for flexible container formation and excellent in heat resistance characteristics.
SOLUTION: The tarpaulin is obtained by forming a polyolefin-based resin layer containing 100 pts. mass one or more kinds of ethylenic copolymer resin selected from ethylene-vinyl acetate copolymer resin and ethylene (meth)acrylic acid (ester) copolymer resin and 0.5-20 pts. mass cyclic imino-ether group-containing copolymer resin and as necessary, blending one or more kinds of resins selected from a polyethylene resin, an ethylene-α-olefin copolymer resin and a polypropylene resin alloy therein on both surfaces of a fibrous base fabric.

SI--21843 - COMPOSED MATERIAL FOR MULTIPURPOSE TARPAULINS FOR PROTECTION OF VEHICLES AGAINST HAIL, MULTIPURPOSE LININGS MADE OF THEM AND METHOD OF FIXING ON A VEHICLE

TOM TOVARNA OPREME D D

Published 2006-02-28 Priority date 2004-07-02 (SI)

The invention in question discloses a composed sandwich material for the manufacture of protection linings for the protection of surfaces against hail, which is composed of three layers, the medium one being foamed polyethylene or a soft polyethylene foam and the outer two layers a plastic-coated textile fabric resistant to water, where the outer two layers are sewn together along exterior edges, while the medium layer, which is narrower along the whole perimeter for a certain distance, is not punctured by this seam and individual layers are not joined together in the central part. The invention discloses also a lining made of the new material which protects completely a vehicle against hail and is composed essentially of three parts sewn together by means of longitudinal seams which are puncturing the medium layer of individual parts of the lining, as well as a method of its fixing to a vehicle, carried out by means of elastics which are led under the vehicle's undercarriage to the right side, where they are attached to sewn-in eyes and stretched with tighteners to fix the lining firmly to the vehicle's surface and prevent its movement due to wind jerks.

DE102004029596 - COMPOUND NONWOVEN STAPLE FIBER FABRIC IN ONE OR MORE LAYERS, AS TARPAULINS OR PACKING MATERIALS, HAS A POLYMER COATING OR LAMINATED FILM ON ONE SIDE TO GIVE STRENGTH WITHOUT ADDED WEIGHT

OERTEL

Published 2005-12-29 Priority date 2004-06-18 (DE)

The compound nonwoven fabric, in a weight of 30-180 g/m², is in one or more layers with a polymer coating on one side or laminated with a polymer film. The coating or film has a thickness of 15-200 µm to give strength to the fabric structure. The nonwoven is composed of synthetic, natural, semi-synthetic or bi-component staple fibers, bonded together by needling or water jets or by heat.

KR20050080213 - ENVIRONMENT-FRIENDLY TARPAULIN COATED BY ETHYLENE VINYL ACETATE COPOLYMER RESIN AND A MANUFACTURING METHOD THEREOF WITHOUT PLASTICIZER

FABINNO

Published 2005-08-12 Priority date 2004-02-09 (KR)

PURPOSE: Tarpaulin coated by ethylene vinyl acetate copolymer and a manufacturing method thereof are provided to reduce weight, and to improve abrasion resistance, cold resistance and durability by adding ethylene vinyl acetate resin to polyester or polyolefin fabric.
CONSTITUTION: To manufacturing a tarpaulin product coated by ethylene vinyl acetate copolymer, a polyester or polyolefin fabric layer is prepared. Ethylene vinyl acetate is mixed with polyolefin resin such as polyethylene or polypropylene, and the mixed resin of ethylene vinyl acetate and polyolefin is extruded and coated. The extrusion-coated mixed resin of ethylene vinyl acetate and polyolefin is coated on both sides or one surface of polyester or polyolefin fabric. The manufactured tarpaulin product comprises a mixed layer of ethylene vinyl acetate and polyolefin resin, and a polyolefin fabric layer.

KR20050066398 - TARPAULIN FOR PROJECTION SCREEN WHICH HAS GOOD DUCTILITY, DURABILITY AND SHADING PROPERTY, LOW REFLECTION AND DAZZLING PREVENTION EFFECT

LG CHEMICAL

Published 2005-06-30 Priority date 2003-12-26 (KR)

PURPOSE: A tarpaulin for projection screen is provided to have a good ductility, durability and shading property and to have low reflection and a dazzling prevention effect.
CONSTITUTION: The tarpaulin for projection screen consists of a front shading sheet layer; an adhesive layer; a substrate sheet layer of glass fiber fabrics; an adhesive layer; a rear shading sheet layer; and an anti-reflection part for preventing dazzling by an outer light on one side or both sides of the tarpaulin. The front shading sheet layer is composed of white PVC (polyvinyl chloride) sheet and the rear shading sheet layer is composed of black PVC sheet.

KR20050011558 - TARPAULIN FOR PREVENTING SLIDE WHICH HAS EXCELLENT COUNTER EFFECT TO SURFACE FRICTION, AND MANUFACTURING METHOD THEREOF USING PLASTIC CHIP

KWON HYUCK CHONG (Inventor)

Published 2005-01-29 Priority date 2003-07-23 (KR)

PURPOSE: Tarpaulin for preventing slide has excellent counter effect to surface friction. A manufacturing method thereof is characterized by using plastic chip. CONSTITUTION: Tarpaulin for preventing slide is obtained by the steps of: preparing polyethylene resin and plastic chip; supplying the plastic chip together through a moving device and a supplying roller when the polyethylene resin is supplied to polyethylene fabric; and then piling the polyethylene resin and the plastic chip on the polyethylene fabric at the same time. The plastic chip is protruded from a polyethylene resin layer. A manufacturing device thereof comprises: a T-die supplying the polyethylene resin; the supplying roller which is installed on a right upper part of an embossing roller, unwinding the polyethylene fabric to supply; the embossing roller which is rotated in an opposite direction of the supplying roller, coating the polyethylene fabric with the polyethylene resin, and discharging the coated fabric; a chip supplying board which is installed on a proper position capable of being supplied with the plastic chip, having a sloPE of a proper angle; a chip storage tank containing the plastic chip; and the moving device having a proper sloPE and holding up the plastic chip from the chip storage tank to transfer the chip. The supplying roller is so connected with a sprocket shaft of the embossing roller through a belt as to be interlocked, and contains many supplying boards. The moving device comprises a first moving roller and a second moving roller at proper interval. The first roller and the second roller are interlocked by a conveyor belt. A chip dividing plate is installed on the conveyor belt at proper interval.

JP2004315666 - FILM FOR TARPAULIN

ACHILLES

Published 2004-11-11 Priority date 2003-04-16 (JP)

PROBLEM TO BE SOLVED: To provide a biodegradable resin film which is used for a tarpaulin capable of being easily disposed of after use and can be easily laminated on a base fabric.
SOLUTION: The biodegradable resin film for a tarpaulin is prepared by adding a polyhydric alcohol/aliphatic acid ester to an aliphatic acid polyester resin and an aromatic/aliphatic polyester resin. Desirably, the biodegradable film comprises at least two layers one of which comprises the aromatic/aliphatic polyester resin and the other of which comprises the aliphatic polyester resin and is characterized in that the polyhydric alcohol/aliphatic acid ester is added to the aliphatic acid polyester resin.

KR20040076000 - VARIEGATED POOL-COVER TARPAULIN USING PVC COMPOUND AND MANUFACTURING METHOD THEREOF

KI YUNG SANG (Inventor)

Published 2004-08-31 Priority date 2003-02-24 (KR)

PURPOSE: A variegated pool-cover tarpaulin prepared from a PVC compound and a manufacturing method thereof are provided to enhance visuality of a PVC based variegated tarpaulin product, to impart an aesthetically appealing appearance to a pool cover, and to enable variegated patterns to be maintained for a prolonged period of time even after use outdoors. CONSTITUTION: The manufacturing method of the variegated pool-cover tarpaulin comprises: mixing materials including 100 wt% of a PVC resin, 40 to 65 wt% of phthalate plasticizer, 10 to 40 wt% of an inorganic compound, 2 to 4 wt% of a barium-zinc compound based stabilizing liquid, and 0.5 to 0.8 wt% of ultraviolet stabilizer; adding a cyan blue master batch pigment and a titanium white pigment to the resultant mixture and mixing the same using a Banbury mixer to form blue and white PVC films; producing variegated PVC films using a calender device; processing a triple-layered tarpaulin product by sequentially laminating a PVC film as an upper layer, fabric coated with paste resin as a middle layer, and a PVC film as a lower layer and a PVC film for a lower layer; coating a surface of the tarpaulin product with a liquefied acrylic resin; and finishing the coated tarpaulin product.

KR20040072854 - NONSKID TARPAULIN USING ETHYLENE VINYL ACETATE RESIN AND MANUFACTURING METHOD THEREOF

KI YUNG SANG (Inventor)

Published 2004-08-19 Priority date 2003-02-11 (KR)

PURPOSE: A manufacturing method of nonskid tarpaulin is characterized by using an ethylene vinyl acetate resin. The nonskid tarpaulin has excellent slide preventing property, abrasion resistance and durability. CONSTITUTION: Nonskid tarpaulin is obtained by the steps of: preparing an ethylene vinyl acetate resin; and then coating one side or both sides of polyethylene fabric coated with polyethylene resin with the ethylene vinyl acetate resin. The tarpaulin is comprised of 5-100wt.% of the ethylene vinyl acetate resin and 95-5wt.% of the polyethylene.

EP1429104 - HEAT CAMOUFLAGE COVERING

TEXPLORER

Published 2004-06-16 Priority date 2002-12-12 (DE)

The camouflage tarpaulin, which also prevents the escaPE of heat which could be detected by a thermal imager, has a textile carrier of glass filaments in a woven or knitted or warp knitted structure with polyester bonding filaments, in a fabric weight of 400 g/m². The camouflage tarpaulin, which also prevents the escaPE of heat which could be detected by a thermal imager, has a textile carrier of glass filaments in a woven or knitted or warp knitted structure with polyester bonding filaments, in a fabric weight of 400 g/m². The outer surface has a polyurethane coating containing color pigments, preferably metal pigments containing chrome oxide. The under side of the carrier has a silicon and/or polyurethane coating containing aluminum powder.

DE20219203 - TARPAULIN, IN PARTICULAR TO BE POSITIONED LATERALLY AT LOADING AREA OF LORRY, JOINED TO ROOF WITH TWO-WAY CUSTOMS SEALABLE ZIP FASTENER

LUDWIG THORSTEN

Published 2003-04-10 Priority date 2002-12-11 (DE)

The tarpaulin sheet used as a combined lateral panel and door is provided with one half of a zip fastener sewn to its upper edge which can be joined to the other half sewn to a small area of the material extending vertically from the roof. The roof can either be of a suitable rigid material or also of the textile used for the production of the tarpaulin. The teethed strips of the zip as well as the sliding element can be sealed appropriately by the customs if required.

FR2848228 - PLASTIC-COATED TEXTILE E.G. FOR RAILWAY WAGON TARPAULIN HAS ONE SIDE COATED WITH PVC-BASED AND OTHER WITH SILICONE-BASED PLASTIC

FERRARI S TISSAGE & ENDUCT

Published 2004-06-11 Priority date 2002-12-09 (FR)

The material has a core layer of a woven or non-woven textile based on polymer or glass fibres, coated on one side with a PVC-based plastic, and on the other with a silicone-based plastic that can be applied without a solvent.

EP1389727 - THERMAL CAMOUFLAGE PLANE

C F PLOUCQUET

Published 2004-02-18 Priority date 2002-08-14 (DE)

The thermal camouflaging tarpaulin comprises a carrier fabric which on its side facing the heat source is provided with a polyester foil carrying a coating reflecting thermal radiation.

KR20030095552 - FLEXIBLE TARPAULIN AND MANUFACTURING METHOD THEREOF

KI YUNG SANG (KR) (Inventor)

Published 2003-12-24 Priority date 2002-06-12 (KR)

PURPOSE: A manufacturing method of flexible tarpaulin which is characterized by containing 10-30wt.% of ethylene ethyl acrylate, having excellent flexibility and excellent texture, reducing shrinking percentage and having excellent shaPE stability is provided. CONSTITUTION: The flexible tarpaulin is comprised of: a textile layer containing 70-90wt.% of high density polyethylene and 10-30wt.% of ethylene ethyl acrylate; and a resin layers comprised of 30-100wt.% of ethylene-propylene copolymer, 50-70wt.% of ethylene-vinyl acetate copolymer and 0-50wt.% of styrene-ethylene-butene block copolymer. The flexible tarpaulin is obtained by the steps of: melting and mixing 70-90wt.% of the high density polyethylene and 10-30wt.% of the ethylene ethyl acrylate; weaving textile out of the compound; mixing at least one copolymer of the ethylene-propylene copolymer and the ethylene-vinyl acetate copolymer with the styrene-ethylene-butene block copolymer to manufacture a resin composition; and then coating one side or both sides of the textile with the resin composition.

WO2003100163 - ANTI-SLIP TARPAULIN AND METHOD OF MANUFACTURING IT

KI YUNG-SANG (KR) (Inventor)

Published 2003-12-04 Priority date 2002-05-25 (KR)

The present invention relates to an anti-slip tarpaulin and a method for manufacturing the same which can prevent slipping accidents from occurring, by forming a coating layer including a plurality of spilt yarns for enhancing a surface friction force on at least one surface of the tarpaulin for a tent for protecting heaped products. The anti-slip tarpaulin includes a woven cloth layer formed by weaving polyethylene, and a coating layer coated on one or both surfaces of the woven cloth layer. Here, a plurality of twisted split yarns are aligned on the coating layer on at least one surface at predetermined intervals.

WO200389241 - PROCESS FOR PREPARING HIGH-STRENGTH PE TARPAULIN

KI YUNG-SANG (KR) (Inventor)

Published 2003-10-30 Priority date 2002-04-22 (KR)

The present invention relates to a PE tarpaulin prepared by coating low-density polyethylene on both surfaces of a cloth woven by using drawn yarns (flat yarns) having higher fiber strength than a general PE tarpaulin by appropriately mixing high density polyethylene and polypropylene, and a process for preparing the same. The PE tarpaulin shows higher mechanical strength than general PE tarpaulin.

KR20030070169 - MANUFACTURING METHOD OF TEXTILE FOR PRODUCING TARPAULIN OUT OF FILM CUT FINELY

CHOI JONG OK (KR) (Inventor)

Published 2003-08-29 Priority date 2002-02-21 (KR)

PURPOSE: A manufacturing method of textile for producing tarpaulin is characterized by minimizing an interface between yarn and a melted coating solution and using the same material of the coating solution as the textile material. The textile is characterized by not melting the textile when the tarpaulin is coated and producing the tarpaulin having excellent strength and durability. CONSTITUTION: The textile for producing the tarpaulin is obtained by the steps of: cutting a flat film finely to manufacture a band tyPE film; twisting the band tyPE film to manufacture round yarn; supplying the yarn to a weaving machine; and then producing the net textile.

KR20030059606 - TARPAULIN WITH AIR AND WATER PERMEABILITY AND ANTISKID FUNCTION

KI YUNG SANG (KR) (Inventor)

Published 2003-07-10 Priority date 2002-01-03 (KR)

PURPOSE: Provided is tarpaulin with air and water permeability and antiskid function which includes air and water permeability with keeping authentic function of the tarpaulin so that it is used for a cover of a lawn ground or a green cover in a golf course during winter season. CONSTITUTION: The tarpaulin with air and water permeability and antiskid function comprises the parts of: a textile layer which is formed by weaving polyethylene; a porous coating layer which is formed by mixing 100wt% of low-density polyethylene or ethylene-vinyl acetate resin and 3-8wt% of hydrazo dicarbon amide or azo dicarbon amide and coated on one side or both sides of the textile layer; and plural holes which are formed at one side of the porous coating layer.

KR20030059605 - TARPAULIN AND PRODUCTION PROCESS THEREOF

KI YUNG SANG (KR) (Inventor)

Published 2003-07-10 Priority date 2002-01-03 (KR)

PURPOSE: Provided is novel tarpaulin which shows superiority in strength and flexibility with keeping the similar mechanical intensity as preexisted tarpaulin so that it is widely used for industrial materials. CONSTITUTION: The novel tarpaulin is characterized by comprising the parts of: a textile layer which is formed by weaving polypropylene or polyethylene; and a resin layer which is formed by fusing and mixing 30-100wt% of ethylene-propylene copolymer, 50-70wt% of ethylene-vinylacetate copolymer and 0-50wt% of styrene-ethylene-butene block copolymer and coated on one side or both sides of the textile layer.

JP2003176387 - ETHYLENIC POLYMER COMPOSITION AND TARPAULIN USING THE SAME

MITSUBISHI CHEMICAL FUNCTIONAL

Published 2003-06-24 Priority date 2001-12-12 (JP)

PROBLEM TO BE SOLVED: To provide an ethylenic polymer composition having excellent flexibility, heat resistance and high-frequency welder processability and a tarpaulin using the same.
SOLUTION: This ethylenic polymer composition comprises (A) a straight- chain ethylene-. alpha. -olefin copolymer composed of ethylene and a 3-18 α-olefin and having 10-80 °C temperature of the maximum peak in an elution curve obtained by temperature rising elution fractionation and 0.1-100 g/10 min melt flow rate, (B) an ethylene vinyl acetate copolymer having 0.05-100 g/10 min melt flow rate, (C) a modified ethylenic polymer with a functional group- containing ethylenically unsaturated compound and (D) a hydrous inorganic compound. The ratio of the component (A) accounts for ≥ 10 wt.% of the total amount of the components (A) and (B) and the content of the vinyl acetate units derived from the component (B) is 4-30 wt.%. The melt flow rate as the polymer composition is 0.1-80 g/10 min. The tarpaulin is obtained by laminating a layer of the ethylenic polymer composition onto at least one surface of a fiber knitted or woven fabric as a base fabric.

EP1312733 - TENT CORNER CONSTRUCTION

COLEMAN

Published 2003-05-21 Priority date 2001-11-16 (US)

A method of constructing a water-resistant corner for a tent or other fabric structure, and the corner formed therefrom. A protective panel may be laid over a flooring material sheet, and the sheet and the protective panel are folded into a corner. The formed corner may then be turned inside out, so that the protective panel is located on the outside of the newly-formed corner. The protective panel thereby covers the outermost corner of the flooring, and the seam formed at that corner. An interior waterproof layer, such as a waterproof sealing tape, may be attached on the inside of the inverted corner to act as a further moisture barrier.

EP1312272 - POLYMER MEMBRANE, METHOD OF ITS PRODUCTION AND USE THEREOF

KUESTERS PETER

Published 2003-05-21 Priority date 2001-11-14 (DE)

A synthetic plastic membrane obtainable from at least 70 vol. % of two polyurethanes PU(A) and PU(B) and 2-10 vol. % of a pigment powder (WP) and optionally other components. Independent claims are included for: (1) a process for preparation of the membrane by dissolution of two different polyurethanes PU(A) and PU(B) in an organic solvent with a pigment powder (WP) and optionally other components, and application of the solution obtained to a surface; (2) a laminate consisting of one or more layers (V) of a textile material and one or more layers (M) of the membrane above and optionally further layers; (3) a process for preparation of the laminate of one or more layers (V) of a textile or nontextile material and one or more layers (M) of a membrane based on a synthetic plastic by application of a solution containing the two polyurethanes PU(A) and PU(B), the pigment powder (WP and any other components to the surface of the textile or nontextile material.

JP2002370330 - TARPAULIN

OKAMOTO INDUSTRIES

Published 2002-12-24 Priority date 2001-06-15 (JP)

PROBLEM TO BE SOLVED: To provide an easy-to-handle tarpaulin which does not become hard during low temperature, that is, exhibits high cold resistance and also excellent wear resistance with almost no chemical migration, and a flexible container manufactured by using the tarpaulin.
SOLUTION: This tarpaulin has a copolymer polyester resin layer or a synthetic resin layer composed mainly of the copolymer polyester resin, formed on both sides of a base cloth. The synthetic resin layer is preferably a mixed resin layer composed of the copolymer polyester resin and an acrylic soft resin. In addition, the synthetic resin layer preferably contains 5 to 40 pts. wt. of an elastomer for 100 pts. wt. of the synthetic resin. Further, the base cloth is preferably a polyester fabric. Also the flexible container made of the tarpaulin is provided.

US20030064647 - TARPAULIN USING RESIN COMPOSITION FOR PRESS-COATING AND METHOD FOR PREPARING THE SAME

KOREA TARPAULIN

Published 2003-04-03 Priority date 2001-05-30 (KR)

The present invention relates to a tarpaulin using resin composition for press-coating and a preparation method thereof. The tarpaulin comprises a polypropylene woven fabric layer prepared by weaving polypropylene multifilament yarn; and a resin composition layer which is press-coated on either or both sides of said polypropylene woven fabric layer, wherein the resin composition is obtained by melt-kneading ethylene-propylene copolymer and ethylene-octene random copolymer or styrene-ethylene-butene block copolymer. The tarpaulin of the present invention as obtained by using a resin composition for press-coating is flexible, light and recyclable. Because the tarpaulin of the present invention has an excellent mechanical strength, it is suitable for use as an industrial material.

KR20010074304 - OLEFINS TARPAULIN

NT VALLEY

Published 2001-08-04 Priority date 2001-05-07 (KR)

PURPOSE: Olefins tarpaulin is provided, to improve the tensile strength and the adhesion strength and to decrease the weight per unit area without the deterioration of adhesion between textile and coating composition. CONSTITUTION: The olefins tarpaulin is such that it is prepared by coating a coating composition on the both sides of the textiles which have the warp and weft densities of 5-20 lines/inch and use a highly strong polyester filament with size of 200-1,500 denier as a warp and a weft, and pressing it by using a pressing roller. The coating composition comprises 60-95 wt.% of high density polyethylene; 5-40 wt.% of an elastomer which is prepared from methylene propylene rubber; 0.5-15 wt.% of a coloring master batch chip which is prepared by mixing 50-90 wt.% of high density polyethylene and 10-50 wt.% of a pigment; and 0-10 wt.% of an adhesion-prevention master batch chip which is prepared by mixing 50-90 wt.% of high density polyethylene and 10-50 wt.% of silica. Preferably, the elastomer is prepared by mixing 70-90 wt.% of ethylene and 10-30 wt.% of octene, or 70-90 wt.% of ethylene and 10-30 wt.% of butene; the coloring master batch chip is prepared by mixing 50-90 wt.% of high density polyethylene and 10-50 wt.% of titanium oxide; and the adhesion-prevention master batch chip is prepared by mixing 50-90 wt.% of high density polyethylene and 10-50 wt.% of calcium carbonate.

JP2002120344 - TARPAULIN

MITSUBISHI CHEMICAL FUNCTIONAL

Published 2002-04-23 Priority date 2000-10-17 (JP)

PROBLEM TO BE SOLVED: To provide tarpaulin formed by laminating an ethylenic polymer on the surface of a base fabric and excellent not only in flexibility, scratch resistance but also in high frequency welder processability.
SOLUTION: The tarpaulin is formed by laminating a resin composition which contains a component (A) and a component (B), characterized by that the occupying ratio of the component (A) is 10 wt.% or more and the content of an acyl group-containing ethylenic unsaturated compound unit originating from the component (B) is 6-30 wt.% and has a melt flow rate of 0.1-80 g/10 min, on at least the single surface of a fiber knitted fabric being a base fabric. The component (A) comprises an ethylene/α-olefin copolymer with a melt flow rate of 0.1-100 g/10 min consisting of ethylene and a 3-18 α-olefin and the component (B) comprises an ethylene/acyl group-containing ethylenic unsaturated compound copolymer with a melt flow rate of 0.05-100 g/10 min consisting of ethylene and an acyl group-containing unsaturated compound.

FR2815447 - TEAR OR LACERATION DETECTOR FOR TEXTILE COVERING MATERIAL SUCH AS TARPAULIN USES SUPPLE ELECTRIC WIRE PASSING THROUGH PVC-COATED MESH

LANDAIS JEAN CHRISTOPHE DIDIER (FR) (Inventor)

Published 2002-04-19 Priority date 2000-10-16 (FR)

The detector comprises a supple electric wire passed through the mesh of a woven textile material and projecting from the edges of the mesh so that it can be connected to other wires or an alarm system.

JP2002086649 - POLYOLEFIN TARPAULIN

HAGIHARA INDUSTRIES

Published 2002-03-26 Priority date 2000-09-19 (JP)

PROBLEM TO BE SOLVED: To provide a flame retardant polyolefin tarpaulin which is light in weight and high in strength, has flexibility, and does not generate a poisonous gas in incineration.
SOLUTION: In the polyolefin tarpaulin of a laminate in which a polyolefin layer is laminated at least on one side of a woven fabric formed from stretched polyolefin threads, a flame retardant of a nitrogen compound is incorporated in the polyolefin.

JP2001315238 - TARPAULIN HAVING DOUBLE LAYERED STRUCTURE, METHOD FOR MANUFACTURING THE SAME, AND ROLL BLIND MANUFACTURED THEREBY

HIROSHIMA KASEI

Published 2001-11-13 Priority date 2000-05-11 (JP)

PROBLEM TO BE SOLVED: To increase the thickness of tarpaulin while reducing the weight thereof per a unit area with respect to the thickness and to prevent the generation of wrinkles at the time of winding, for example, in a case used in a roll blind.
SOLUTION: A polyvinyl chloride sol compound which consists of 100 parts by weight of polyvinyl chloride for paste, 70 parts by weight of a plasticizer, 3 parts by weigh of a stabilizer, 3 parts by weight of a foaming agent, 50 pars by weight of a filler, 15 parts by weight of pigment, and 5 parts by weight of a thickener. The viscosity is adjusted to 300 PS, is directly applied to the single surface of a base fabric with a basis weight of 500 g/m², and foamed three times by a predetermined, means and the whole is cut into a predetermined size corresponding to a use such as a roll blind or the like.

EP1146155 - AWNING CLOTH AND METHOD FOR PRODUCTION OF THE SAME

SCHMITZ WERKE

Published 2001-10-17 Priority date 2000-04-14 (DE)

An awning fabric made from polyester (PES) filament yarn (continuous yarn) and/or PES monofilament yarn. Independent claims are also included for the production of awning fabric by weaving PES filament yarn and/or monofilament yarn; and awnings comprising this fabric, especially articulated bracket awnings or winter garden awnings.

JP2001254278 - TARPAULIN

SUMITOMO CHEMICAL

Published 2001-09-21 Priority date 2000-03-10 (JP)

PROBLEM TO BE SOLVED: To obtain a tarpaulin having excellent processability, heat resistance when laminated to a fiber base fabric and wiriness flexibility instead of a non- rigid PVC.
SOLUTION: This tarpaulin is obtained by laminating a resin (A) containing 15-50 wt.% of an oxygen atom in the molecule, having 0-90°C glass transition point and a tang δ of 0.07-1 at 20°C, especially a copolymer of methyl methacrylate and an acrylic acid alkyl ester to at least one side of a fiber base fabric.

JP2001191433 - TARPAULIN EXCELLENT IN CONDUCTIVITY

MITSUBISHI CHEMICAL FUNCTIONAL; MITSUBISHI CHEMICAL

Published 2001-07-17 Priority date 2000-01-14 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin which is excellent in conductivity and capable of high frequency welding processing.
SOLUTION: In the tarpaulin excellent in conductivity in which both sides of a base fabric are coated with resin layers, one resin layer of the base fabric is constituted of a resin layer including an ethylene-vinyl acetate copolymer layer, and the other resin layer of the base fabric is constituted of a resin layer containing a polyolefin resin layer incorporated with conductive carbon black.

JP2001080011 - TARPAULIN EXCELLENT IN FLEXIBILITY AND ABRASION RESISTANCE

MITSUBISHI CHEMICAL FUNCTIONAL

Published 2001-03-27 Priority date 1999-09-13 (JP)

PROBLEM TO BE SOLVED: To provide tarpaulin excellent in flexibility and abrasion resistance and suitable for repeated use.
SOLUTION: In tarpaulin wherein a resin composition is laminated on at least single surface of a base fabric comprising a fiber fabric, the resin composition is prepared by mixing an ethylene 3-18 α-olefin copolymer (A) with an MFR of 0.1-95 g/10 min, a density of 0.85-0.92 g/cm³ and a Q value of below 3.0 and an ethylene/vinyl acetate copolymer (B) with a component wt. ratio of ethylene and vinyl acetate of (90:10) to (70:30) in a wt. mixing ratio of (10:90) to (50:50).

JP2000062106 - TARPAULIN WITH OUTSTANDING ANTISTATIC PROPERTY

MITSUBISHI CHEMICAL; MITSUBISHI CHEMICAL FUNCTIONAL

Published 2000-02-29 Priority date 1998-08-20 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin with superb stable antistatic properties which is free from the run-off of an antistatic agent by the plural number of times of cleaning by constituting tarpaulin of a polymer containing a specified ratio of structure units expressed by a specific formula and a polyolefin modified product, applied to at least, one face of a base cloth of a synthetic fiber woven fabric.
SOLUTION: A copolymer containing structural units expressed by general formulae I to III in the ratio of 10-50 mol.% of ethylene structural unit of formula I, 40-60 mol.% acrylate structural unit of formula II and 15-40 mol.% polyoxyalkylene allyl ether of formula III and a polyolefin modified product obtained by modifying polyolefin by carboxylic acid or a carboxylic acid anhydride are applied to at least, one face of a base cloth of a synthetic fiber woven fabric. In the formulae I-III, R1 is a 10-50C straight-chain or branched chain alkyl group; R2, R3 are independently a 1-10C alkyl group; R4 is a 2-10C straight- chain or branched chain alkylene group; and n is an average numerical value of 2-20.

JP2000037824 - TARPAULIN EXCELLENT IN ANTISTATIC PROPERTY

MITSUBISHI CHEMICAL FUNCTIONAL

Published 2000-02-08 Priority date 1998-07-24 (JP)

PROBLEM TO BE SOLVED: To permanently demonstrate a stable antistatic property and prevent contamination to contents caused by desorption of an antistatic agent by using a synthetic fiber woven fabric as a base material, on at least one surface of which a soft synthetic resin coating film containing a particular amount of acrylamide copolymer is formed.
SOLUTION: A soft synthetic resin coating film is formed, having a synthetic fiber woven fabric as a base material, on at least one surface of which 5-40 pts. wt. of an acrylamide copolymer are contained. A resin composition arranged with the acrylamide copolymer blended in the soft synthetic resin has a micro- structure where a uniform network dispersion of the acrylamide copolymer is formed into the soft synthetic resin, so that the antistatic agent does not bleed on the surface of the coating film. Accordingly, when it is used as a flexible container, the contents are neither contaminated nor washed away by washing or the like, so as to permanently demonstrate the stable antistatic property.

JP2000007086 - FLEXIBLE CONTAINER AND TARPAULIN WITH BARRIER PROPERTY FOR THE SAME

MITSUBISHI CHEMICAL FUNCTIONAL

Published 2000-01-11 Priority date 1998-06-18 (JP)

PROBLEM TO BE SOLVED: To provide tarpaulin for flexible-container whose printability is improved, weldability by a high-frequency welder is improved, flexibility is excellent, and gas barrier properties are excellent.
SOLUTION: In the flexible-container tarpaulin in which both sides of base fabric being a woven/knitted material are covered with a resin, one of the sides is covered with a resin composition obtained in such a manner that 5-30 pts. wt. of ethylene propylene diene terpolymer, 5-30 pts. wt. of an inorganic material of excellent high-frequency heating property whose product of dielectric constant and dielectric loss is 0.1 or above, and 0.5-5.0 wt.% of phosphoric ester liquid-lubricant are compounded with 100 pts. wt. of ethylene-vinyl acetate copolymer whose composition ratio by weight is (90:10)-(70:30), and the other of the sides is covered with a laminate comprising a film of ethylene-vinyl alcohol copolymeric resin.

JP11349004 - HIGHLY AIRTIGHT TARPAULIN FOR FLEXIBLE CONTAINER

MITSUBISHI CHEMICAL FUNCTIONAL

Published 1999-12-21 Priority date 1998-06-10 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin applicable to transport and storage of powder and granular material easy to deteriorate by respectively laminating a film of a copolymer of ethylene with vinyl acetate or the like on one side of a textile/knitted item, and laminating a film-like laminate including an aluminum foil on the other side to improve the printability and weldability of the tarpaulin.
SOLUTION: A base cloth of a tarpaulin consists of a textile or a knit item such as a plain fabric in which a fiber consisting of a natural fiber such as cotton fiber forming a base material and other fibers is woven/knitted. A film consisting of ethylene-vinyl acetate copolymer (EVA) or polyolefins is laminated on one side of the base cloth, and similarly, a film-like laminate including an aluminum foil is laminated on the other side. The film-like laminate consists of a laminate comprising, for example, low-density polyethylene/adhesive/ aluminum foil/adhesive/low-density polyethylene. In addition, the barrier property of the tarpaulin is preferably not more than 0.5 g/m².24h in moisture permeability and not more than 0.5 cc/m².24h in oxygen permeability.

KR100270573 - DEGRADABLE TARPAULIN

CHANG DONG HO

Published 2000-11-01 Priority date 1998-05-22 (KR)

PURPOSE: A decomposable tarpaulin obtained by adding moisture absorbing agent-containing starch and decomposing starch to high density polyethylene and low density polyethylene and extruding by conventional methods is provided, which reduces environmental pollution. CONSTITUTION: This decomposable tarpaulin is prepared by the process consisting of: preparing yarn from high density polyethylene; coating low density polyethylene resin on the upper and lower surface of high density polyethylene fabric obtained by drawing the yarn; adding a mixture of calcium oxide and starch and decomposing starch to high density polyethylene; and extruding. The compound has the advantage of preventing environmental pollution.

CN1225959 - WATER-PROOF AIR-PERMEABLE TARPAULIN AND MAKING TECHNOLOGY THEREOF

LIANG ZHONGJU (CN) (Inventor)

Published 1999-08-18 Priority date 1998-02-09 (CN)

The preparation process of water-proof air-permeable awning cloth is characterized by adopting micropore method principle, utilizing large difference between water drop and vapour molecule in diameter to make the cloth coating layer into micropore type, which only allows the vapour molecule to pass through and keeps the water drop off the cloth coating layer, to attain the goal of resisting water and permeating air. Said invented water-proof air-permeable awning cloth can be substituted for cotton canvas and PVC coating fabric, and features light weight, thin and soft texture, water-proofing, air-permeability, ageing-resisting property, beautiful color, low cost and extensive application.

DE19754238 - VEHICLE TARPAULIN

SCHMITZ ANHAENGER FAHRZEUGBAU

Published 1998-11-19 Priority date 1997-12-06 (DE)

The tarpaulin is a woven fabric in a watertight structure, with a number of belts at the edges to secure it to the vehicle body. The warps lie along the direction of vehicle travel when in position, and the wefts are at right angles to the direction of travel. The shear strength of the tarpaulin fabric is at least 20% higher in the weft direction than along the warps. The fabric shear strength along the warps is set at the min. requirements for the fabric shear and lashing strength.

EP-986668 - CANVASS REINFORCEMENT

BEKAERT

Published 2000-03-22 Priority date 1998-05-08 (EP)

A fabric for reinforcement of canvasses having a plastic coating includes a warp and a weft which form meshes. The meshes have a maximum dimension ranging from 5 cm to 30 cm with at least one of the warp or the weft being formed by a strip which comprises a matrix of a thermoplastic material which is adherable to the plastic coating of the canvasses. The strip includes two or more elongated metal members and has a cross-sectional average thickness ranging from 0.50 mm to 3.0 mm and a cross-sectional width ranging from 3 mm to 25 mm. The metal members provide the canvasses sufficient resistance against the cutting action of a knife or against the action of a pair of shears.

US5865045 - KNIT WEAVE TARPAULIN CONSTRUCTION

MADELEINE COLLATERAL AGENT; GENERAL ELECTRIC CAPITAL; WACHOVIA BANK; GFD FABRICS; WAGNER EDWARD J

Published 1999-02-02 Priority date 1997-04-03 (US)

A containment tarpaulin is formed of an open weave knit stretch fabric having a major pore size which provides sufficient porosity to prevent lift of the tarpaulin due to airfoil effects. The open weave construction, particularly when polyester yarns are utilized, additionally provides resistance to tears, punctures, and abrasion. A rip-stop construction, preferably in the form of solid fabric areas extending across the width and length of the fabric, may be added to improve the strength of the fabric.

JP10195774 - FLAME RETARDANT TARPAULIN

KURARAY PLAST; KYOWA

Published 1998-07-28 Priority date 1996-12-25 (JP)

PROBLEM TO BE SOLVED: To obtain a flame retardant tarpaulin, excellent in fire retardance and hardly generating residual ashes without generating a halogen-based gas when incinerated.
SOLUTION: This flame retardant tarpaulin is obtained by coating a woven fabric, a knitted fabric or a nonwoven fabric with 100-1,000wt.% composition prepared by compounding 100 pts. wt. ethylene-vinyl acetate copolymer with 8-28wt.% vinyl acetate content with 3-10 pts. wt. red phosphorus and 7-25 pts. wt. melamine sulfate.

JP10100335 - BARRIER TARPAULIN FOR FLEXIBLE CONTAINER AND FLEXIBLE CONTAINER

MITSUBISHI CHEMICAL FUNCTIONAL

Published 1998-04-21 Priority date 1996-09-30 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin for a flexible container improved in printability and welding processability by a high frequency welder and excellent in flexibility and gas barrier properties.
SOLUTION: In a tarpaulin for a flexible container constituted by coating both surfaces of base cloth of a woven and knitted article with a resin, one surface is coated with a resin composition prepared by compounding 5-30 pts. wt. of an ethylene/propylene/diene terpolymer, 5-30 pts. wt. of an inorganic substance good in high frequency heat generating properties characterized by that a product of dielectric constant and dielectric loss is 0.1 or more and 0.5-5.0wt.% of a phosphoric ester tyPE liquid lubricant with 100 pts. wt. of an ethylene/vinyl acetate copolymer of which the composition ratio is (90:10)-(70:30) on a wt. basis and the other surface is coated with a laminate containing a ceramic vapor-deposited film.

JP10077066 - BARRIER TARPAULIN FOR FLEXIBLE CONTAINER

DYNIC; MITSUBISHI CHEMICAL FUNCTIONAL

Published 1998-03-24 Priority date 1996-09-03 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin for flexible container, of which the printing property is improved, of which the weldability by a high frequency welder is improved, and which is excellent in flexibility and gas barrier property.
SOLUTION: For a tarpaulin for flexible container comprising a ground fabric of a woven/knitted article, of which both surfaces are coated with a resin, one surface of the woven/knitted article is coated with a resin composition wherein to 100 pts. wt. of an ethylenevinyl acetate copolymer of which the composition ratio by a weight standard is 90:10-70:30, 5-30 pts. wt. of ethylene propylene diene ter polymer 5-30 pts. wt. of an inorganic substance with a favorable high frequency heating property, of which the product of a dielectric constant and a dielectric loss factor is 0.1 or higher, and 0.5-5.0wt.% of a phosphate based liquid lubricant, are respectively blended. Then, the other surface is coated with a polyvinylidene based resin film.

JP10076611 - HEAT RESISTANT TARPAULIN FOR FLEXIBLE CONTAINER

DYNIC; MITSUBISHI CHEMICAL FUNCTIONAL

Published 1998-03-24 Priority date 1996-09-02 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin for flexible container, which is improved in printing property as well as fusion welding workability, effected by a high-frequency welder, and excellent in heat resistance.
SOLUTION: In a tarpaulin for flexible container, which is consisting of woven and knitted base fabric, coated with a resin, the coating resin is constituted of a resin composition, produced by blending 100 pts. wt. of ethylene acetate vinyl copolymer having a composition ratio of 90:10-70:30 in weight reference with 5-30 pts. wt. of inorganic substance, excellent in high-frequency heat generating property and having a product of dielectric constant by dielectric loss of 0.1 or more, and 0.5-5.0wt.% of phosphoric ester liquid lubricant respectively.

JP10076610 - TARPAULIN FOR FLEXIBLE CONTAINER

DYNIC; MITSUBISHI CHEMICAL FUNCTIONAL

Published 1998-03-24 Priority date 1996-09-02 (JP)

PROBLEM TO BE SOLVED: To provide a tarpaulin for flexible container, improved in printing property as well as fusion welding workability, effected by high frequency welder, and excellent in flexibility as well as folding workability.
SOLUTION: In a tarpaulin for flexible container, which is consisting of woven and knitted base fabric, coated with a resin, the coating resin is constituted of a resin composition, produced by blending 100 pts. wt. of ethylene acetate vinyl copolymer having a composite ratio of 90:10-70:30 in weight reference with 5-40 pts. wt. of EPDM, 5-30 pts. wt. of inorganic substance, excellent in high-frequency heat generating property and having a product of dielectric constant by dielectric loss of 0.1 or more, and 0.5-5.0wt.% of phosphoric ester liquid lubricant respectively.

EP-821098 - METHOD FOR FABRICATING OLEFIN TARPAULINS

KOLON

Published 1998-01-28 Priority date 1996-07-26 (KR)

The present invention relates to a method for fabricating olefin tarpaulins and, more particularly to a method for fabricating olefin tarpaulins which have light weight per area and produce no poisonous gas during its incineration, formed by coating films of olefin synthetic resins to both sides of base fabrics woven from high strength polyester filaments by using an extruder and compressing the coated polyester fabrics with a calendering roller, thereby leading to a simple process that requires no special binder treatment. The coating composition of olefin synthetic resins is prepared by dry-blending or melt-blending LLDPE (linear low density polyethylene) or LDPE (low density polyethylene) of 15 SIMILAR 94.5 % by weight with: elastomer of ethylene- alpha -olefin co-polymer of 5 SIMILAR 60 % by weight which is (i) ethylene propylene rubbers or (ii) co-polymers of ethylene and octene or butene; coloring master batch chip of 0.5 SIMILAR 15 % by weight formed by mixing LLDPE or LDPE with pigments or titanium dioxide; and adhesion-preventing master batch chip of 0 SIMILAR 10 % by weight formed by mixing LLDPE or LDPE with silica or calcium carbonate.

JP08001874 - TARPAULIN MADE OF POLYOLEFIN RESIN AND PRODUCTION THEREOF

TORAY INDUSTRIES

Published 1996-01-09 Priority date 1994-06-24 (JP)

PURPOSE: To provide olefinic resin tyPE tarpaulin excellent in heat resistance, abrasion resistance and flexibility, especially, tarpaulin for a flexible container.
CONSTITUTION: In a laminate wherein a polyolefin resin layer is bonded to both surfaces of a fiber base fabric, it is characterized in a that a part of a resin has a crosslinked structure, heat-resistant temp. measured according to a method prescribed by JIS Z1651 is 100°C or higher, the abrasion number of times measured according to a method prescribed by JIS L1096 A-1 is 4200 times or more and rigidity measured according to a method prescribed by JIS L1096A (Gurley method) is 300-800mgf. Tarpaulin made of a polyolefin resin is produced by bonding a polyolefin resin layer to both surfaces of a fiber base fabric to form a laminate and irradiating the same with radiation.

JP07279060 - PRODUCTION OF TARPAULIN

HIROSHIMA KASEI

Published 1995-10-24 Priority date 1994-04-14 (JP)

PURPOSE: To obtain a tarpaulin having the whole uniform thickness and a high commercial value in terms of both appearance and function, free from a projected spot to be the cause of break and crack when subjected to abnormal stress.
CONSTITUTION: In producing a tarpaulin by applying a resin to the obverse and reverse of given ground fabric and even to its substantial part, only a nap part formed by a knotted part or an entanglement of yarn constituting the ground fabric is coated with a resin paste having the same color as that of the resin. The nap part is mechanically crushed, made into uniform thickness and the resin is applied to the obverse and reverse of the ground fabric and even to its substantial part by a prescribed method.

US5431979 - CUT-RESISTANT TARPAULIN

KURARAY; HOECHST CELANESE

Published 1995-07-11 Priority date 1994-04-12 (US)

A cut-resistant tarpaulin has a waterproof coating bonded to a cut-resistant woven fabric. The fabric has a leno or gauze weave. The fabric has warp yarns and weft yarns of braided fibers. The fibers have an initial modulus greater than 400 grams per denier.

US5560384 - RECYCLABLE TARPAULIN SHEET

KOREA TARPAULIN

Published 1996-10-01 Priority date 1994-02-03 (KR)

An outdoor sunscreen formed without rope or pole connecting eyelets includes a fabric sheet having a reinforced margin. The reinforced margin is a two-layered structure and lengthwise receives a reinforcing band therein. This margin is formed by folding an edge of the sheet with the reinforcing band lengthwise placed in the folded edge and by fusion welding together inner surfaces of the folded edge through high frequency heating. A plurality of arcuate punched slits are formed on the reinforced margin for providing a rope reception hole. In the fabric sheet, wefts and warps of the reinforced margin are tightly woven such that a woven structure of the margin about each punched slit endures a tensile force applied thereto from a tightened rope.

DE4441842 - VANDAL AND THEFT RESISTANT TARPAULIN

AKZO NOBEL

Published 1995-06-01 Priority date 1994-11-24 (DE)

A multilayered textile fabric with high resistance to cutting, esp. for goods vehicle or tent tarpaulins, consists of a knitted fabric finished with a polymer which can be welded and/or attached by adhesive. It is coated or printed on one or both sides and is made of aramid and/or gel spun polyethylene fibres or a blend of these. It has a weight of 200-1000 g/m².

EP-607933 - WOVEN TEXTILE FOR MARQUEES, SCREENS, TENTS, TARPAULINS AND PROCESS FOR MANUFACTURING THE SAME.

MEHLER TECHNOLOGY TEXTILIEN

Published 1994-07-27 Priority date 1993-01-19 (DE)

Woven textiles based on environment-friendly, recyclable polyolefins have hitherto not been producible with the properties typical of awnings (marquees), screens and the like, in particular a high grip strength, as was possible for conventional fabrics based on polyacrylonitrile yarns. According to the invention, a fabric woven from a staple fibre yarn produced by spinning polyolefin matrix fibres with fusible fibres can be given adequate grip strength in a separate heat treatment step during the production process. In the woven fabric of the invention, the polyolefin fibres of the yarn are partially welded together via the fusible fibres. The woven fabric of the invention thus has grip strength and is composed of environment-friendly base polymer, making it readily disposable.

WO9411187 - MULTILAYER WEB OF FABRIC FOR USE IN THE FABRICATION OF FLEXIBLE CONTAINERS, TENTS, TARPAULINS, PROTECTIVE CLOTHING, ETC.

HAAGER VOLKER (AT) (Inventor)

Published 1994-05-26 Priority date 1992-11-16 (AT)

The multilayer web of fabric proposed for the fabrication of flexible containers, tents, tarpaulins, protective clothing, etc., has a woven-fabric layer, a rubber layer on one side of the woven-fabric layer and a layer of fluorinated-hydrocarbon polymer on the other side of the woven-fabric layer. In order to obtain a particularly strong yet soft web of fabric, the layer of fluorinated-hydrocarbon polymer is between two layers of rubber.