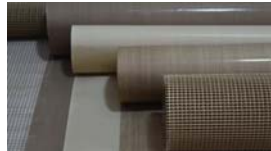




PTFE COATED CONVEYOR BELTS

PTFE (Teflon) is a material of remarkable properties: Nonstick, friction free self lubricating, non-wettable, nonflammable, non brittle, non-toxic, resistant to atmospheric conditions, resistant to fungus growth are some of its major properties. Its electrical properties are equally outstanding. All properties are maintained over a wide temperature range -200°C to +360°C



FIBRE GLASS too is a material of remarkable properties. Fabrics made from continuous filament yarn exhibit superior properties in terms of high tensile strength, low elongation, high temperature resistance etc.

A combination of both produces a unique blend PTFE/GLASS CLOTH, retaining all the properties of both the constituents. It is highly suitable for manufacturing conveyor belts for high temperature resistance etc.

PROPERTIES

PHYSICAL / MECHANICAL PROPERTIES	ELECTRICAL
Outstanding non-stick properties.	Unsurpassed dielectric properties, make the belts the only suitable choice for use in micro-wave Ovens.
High tensile & tear strength.	Unique electrical insulation properties
Very low elongation at break	THERMAL PROPERTIES
Light - weight - requires very low power to drive	Conserves heat energy during passage through oven or dryer. Does not loose energy through radiation
CHEMICAL PROPERTIES	Operating temperature tem. -200°C to +360°C.
Non-toxic - Safe for hygiene	
Inert to almost all chemicals, paints & solvents	
Non-wettable, lower moisture absorption	
Immune to fumes & fungus	

THICKNESS AVAILABLE & THEIR TECHNICAL SPECIFICATIONS

Thickness Mil / Colour	mm	Weight Gms/ mtr ²	BREAKING STRENGTH (KG/2.54CM)	
			WARP	WEFT
6 Mil (Brown)	0.15	250	65	65
10 Mil (Brown)	0.25	520	80	70
10 Mil (BLack)	0.25	520	100	90
14 Mil (Brown)	0.35	660	125	125
14 Mil (Black)	0.35	650	150	110
36 Mil Leno Mesh (Black)	0.9	465	100	90
36 Mil Leno Mesh (Brown)	0.9	550	90	150
22 Mil (Brown)	0.55	1000	130	120
28 Mil (Brown)	0.67	1200	140	130

For More Details, Please Contact:

PETRORAYS PRODUCTS CO

Think Polymers..... Think Petrorays

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TYPES OF JOINTS / SPLICES

LENO SPLICE (POROUS)

In this splice, two pieces of leno fabric are used for two ends folded together to form loops and a pin is placed to complete the splice. Leno fabric pieces are then stitched to the belts ends. This maintained good porosity in the spliced areas and can be put together without dismantling the machine parts



SMART LOOP (BULL NOSE) SPLICE

In this splice, two pieces of Leno woven Kevlar fabric are used for two ends folded together to form loop and a pin is passed to complete the splice. Kevlar fabric is then stitched to both the ends of the belt. This maintains good porosity in spliced area, adds flexibility and strength to the joint and can be put together without dismantling the machine parts.



PEEK SPIRAL SPLICE

In this splice, peek spiral is held in two pieces of Kevlar fabric and peek pin is placed to complete the joint. Two pieces of Kevlar fabric are then stitched to both ends of the belt, it has got all the advantages like smart loop.



TWO PLY LAMINATED BELT

Two pieces of fabric casted together, TAN on one side & BLACK on other side, or both side TAN color, with splices staggered to attain optimum life. This type of belts are mainly used in fusing machine. Thickness of the belt is maintained throughout the conveying operation



TRACKING DEVICES

The belts can be supplied with Guiding Pins or Dot fasteners on one or both edges, Standard is 12.7mm from edge, 38mm apart.

These studs are designed to run through a groove machined in the roller. For belts more than 600mm width the standard method is to incorporate a web guiding mechanism to the machine system, which runs either electrically or mechanically. Tracking devices prolong belt life by preventing edge damage caused by incorrect tracking.



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TYPES OF JOINTS / SPLICES

HEAT SEALED OVER LAP

This is standard splice for most of the applications. Overlap splices are normally 90°. However 67.5° or 45° splices are slightly stronger and more flexible especially when running on small diameter rollers. The overlap joint width also depends on the roller diameter.



HEAT SEALED BUTT

In this splice, ends are butted and joined by sealing a strip of same fabric under the butted ends. The splice is normally at 90° but also available at any other angle. The top surface is as smooth as desired with just a hairline joint.



FINGER SPLICE

This is a very intricate type of joint not mastered by many. In this splice, ends are cut into small inter-locking fingers. The fingers of one end match perfectly in the cutout of the other and vice-versa. Then it is joined by sealing a strip of fabric on each surface.



FABRIC PIN SPLICE

This soft seal splice completely eliminates use of any metal in splicing. Loops are formed by fabric at one end. Similar loops at the other end. It is then easy to match the loops in to the cutout. The joint is finally held by fibre pin. This type of belt is employed in microwave ovens and equipments where metal is not recommended and endless belt is not possible for installations.



ALIGATOR / METAL SPLICE

Mechanical splices are used where an endless belt is not possible for installation. This splice is made with metal alligator lacing through which a pin is placed to complete the splice. This provides a belt which can be put together without dismantling the machine parts. Cover flaps can be used to provide continuous release surface on one or both ends of belt.



EDGE - REINFORCEMENT

The belts are recommended to be supplied with 25m edge reinforcement of similar or any other material. Sealed or sewn edge safeguards & protects both the edges of the belts during operation. Thus the edge of the belt is prevented from fraying & improving longevity.



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Teflon® | Nylon | Derlin® | Poly-Urethane | Poly-Propylene | PEEK® | UHMW-PE

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CATALOGUE

TYPICAL APPLICATIONS

PROCESS	TYPICAL APPLICATIONS
Conveying	Packaging, Screen Printing
Casting	Polymers processing, Manufacturing floor coverings, carpet tiles & Rubber extrusions
Releasing	Food processing, Screen printing, Rubber Extrusion processing, Composites manufacturing
Laminating	Textiles fuse pressing, wood processing, composites manufacturing
Drying	Screen printing, Packaging, Food processing

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