

Petrorays PRODUCTS Co

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PTFE COATED FIBREGLASS CLOTH

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^oc to +360^oc.

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.

MAIN PROPERTIES

PHYSICAL / MECHANICAL PROPERTIES	ELECTRICAL
<ul style="list-style-type: none"> • Outstanding non-stick properties. • High tensile & tear strength. • Very low elongation at break, the most important property required for any conveyor belt. • Light - weight - requires very low power to drive 	<ul style="list-style-type: none"> • Unsurpassed dielectric properties, make the belts the only suitable choice for use in micro-wave Ovens. • Unique electrical insulation properties

MAIN PROPERTIES

CHEMICAL PROPERTIES	THERMAL PROPERTIES
<ul style="list-style-type: none"> • Non-toxic - Safe for hygiene • Inert to almost all chemicals, paints & solvents • Non-wettable, lower moisture absorption than 0.01% at 100^oc • Immune to fumes & fungus 	<ul style="list-style-type: none"> • Conserves heat energy during passage through oven or dryer. Does not loose energy through radiation • Retains all properties throughout wide operating temperature range • Operating temperature tem. -200^oc to +360^oc.

VARITIES AVAILABLE & TECHNICAL SPECIFICATIONS

Thickness		Weight Gms/ mtr ²	Breaking strength (Kg/Cm)	Edge tear strength (Kgs)	Di-Electric Strength (Volts)
Mil	mm				
3	0.075	135	7	4.5	2500
5	0.125	260	19	9.0	3800
6	0.15	305	19	5.4	6500
10	0.25	500	35	16.0	7000
14	0.35	460	70	30.0	7500
22	0.55	1050	80	40.0	-

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PTFE COATED FIBREGLASS ADHESIVE TAPES

PTFE Coated Fibreglass one side silicon pressure sensitive adhesive tapes for temperature resistance upto 260°C. These Tapes are used in sealing of polymer film in FFS, Impulse sealer Band Sealer, & bags making machine. During this operation the plastic film is hot & sticky & the operation is made more efficient if the sealing bars are covered with the strips of PTFE Adhesive tapes, which is very good heat conductor & gives non-stick Surface

We also have fabrics & Tapes which gives impression on the sealing area.

We also have premium grades of Adhesive tapes which are specially used in Oil & Ghee packings



TECHNICAL SPECIFICATIONS

Thickness		Total Thickness	Adhesive Adhesion (Gms/cm)	Breaking strength (Kg/Cm)	DI-Electric Strength (Volts)
Mil	mm				
3	0.075	0.12mm	600	7	4500
5	0.125	0.17mm	1050	14	5000
6	0.15	0.20mm	1050	16	7500
10	0.25	0.30mm	1050	28	5000

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APPLICATION FOR PTFE CLOTH & ADHESIVE TAPES

PACKAGING INDUSTRIES :

- Our 5Mil CLOTH AND 5mil ONE SIDE SILICONE ADHESIVE Tapes are used in covering of heat sealing wires and jaws in FFS, Impulse Sealer, Band sealer and bags making machine
- 6Mil CLOTH & 6Mil OSA TAPES (PREMIUM VARIETY) is specially used in Oil & Ghee Packings
- Plyed belts for heat sealing of plastics pouches in continuous band sealer for higher rate of production
- Belts for wrapping and side sealing of soaps, Biscuits and Toilet paper rolls
- Open mesh belts for heat shrink tunnel
- Fabric for curtains for shrink – wrapping machine to reduce heat loss from both ends

PLASTICS INDUSTRIES :

- Release fabric for hot plate welding of plastics (UPVC, White good and automotive)
- Release fabric for H.F. and I.R. Welding
- Release fabric for PE/PU extrusion Coating
- Release fabric/tape for welding of polythene bags

CURING INDUSTRIES :

- Belts for extruded rubber profile curing
- Belts for curing of paint chips, P.U., P.E. & PVC products
- Process belts for curing and impression of PVC backed carpets
- Release belts for curing of hot melt adhesives and adhesive tapes
- Release fabric for curing of abrasive wheel discs

FOOD INDUSTRIES :

- Release fabric for lining of baking trays/dough and meat
- Belts for baking & cooling biscuits and confectionery
- Process belts for frying/ drying and curing of meats
- Release tapes for vertical FFS machine and vacuum packing

CHEMICAL , ELECTRICAL/ELETRONIC INDUSTRIES :

- Protective curtains in process plants
- For gaskets & membrane
- Electrical Insulating Tape
- Release sheets used in laminating printed circuit board
- Belts for drying ink & solders on PCBs

PRINTING INDUSTRIES :

- Belts for UV dryer for drying printed ink on card, paper, board. Metals, T – Shirts, glass, plastic parts
- Belts for drying ink & solders on PCBs

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GUIDELINES FOR AFFIXING THE TEFLON ADHESIVE TAPES

It is advisable to follow the below mentioned instructions for the best performance of our Adhesive tapes.

S U R F A C E P R E P A R A T I O N :

- Clean the roll/bar/sheet/rod etc. where you want to stick the tape with dry cloth or zero number Sand paper.
- Remove all dirt, grease, carbon etc.
- Gently rub the surface with the solvent such as acetone, methyl ethyl ketone (MEK) etc. and see that the roll/bar/sheet/rod etc. is dry, clean & slightly rough

EVEN A SLIGHT OIL OR DIRT LEFT ON SURFACE CAN IMPAIR ADHESION STRENGTH

A P P L I C A T I O N :

- Open release paper (yellow corrugated) from one side & start to stick the tape with thumb pressure. Open only about 2" to 4" initially.
- Again open release paper a little bit & stick adhesive tape on the surface. This will help avoid air bubbles.
- Stick in such a manner that you do not have to ply off the tape for minor adjustments. In other words stick correctly the very first time.
- If air bubbles are entrapped remove by rolling a round rod.

This guide is being submitted for optimum life of the adhesive tapes.

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All technical information & recommendations given are based on our first hand experiences. However we do not undertake any legal responsibilities for the sa is advised to check information data & results. Since the performance of a cloth & adhesives tapes can be judged only through onsite evaluation.