## ABOUTUS

Since 1973, Insulation Solutions has emerged as a pioneer in the import and supply of Engineered Plastics and Electrical Insulation in India. An ISO 9001:2001 company; who has its manufacturing and component processing unit in New Delhi. Insulation Solutions is engineered plastic company who always focuses in bringing latest technology and innovation in the market. The machinery, technology and raw materials are sourced from Japan and Korea to ensure the quality of the products but manufactured in India to ensure competitive pricing. In order to ensure quality, it has its own well equipped testing laboratory.

Insulation Solutions over the last few years has expanded its product line beyond insulation materials to Engineered Plastics, Electrical Insulations, Industrial Electricals, Industrial Sleevings and Insulation Tapes. The company is renowned for having one of the largest stocks in the country. Insulation Solutions is well-known in the market for the quality and the competitive prices of its products. The dedicated workforce who work around the clock have made it possible to provide prompt delivery and quality service to its customers.

The company has two separate offices to cater to its retail and wholesale trade. Both the offices are located at the commercial hub of electricals in Delhi. Insulation Solutions has established a long term cooperation with Bihar Insulation House, Accurate Connecting Systems Pvt Ltd, E-systemizer Pvt ltd and has started the manufacturing of LED Lights.

## WAREHOUSING

The company has two warehouses of 400 sq yards each which are located at the heart of the city with easy access to transport facilities.

## TOPFIVEREASONS TO CHOOSE INSULATION SOLUTIONS

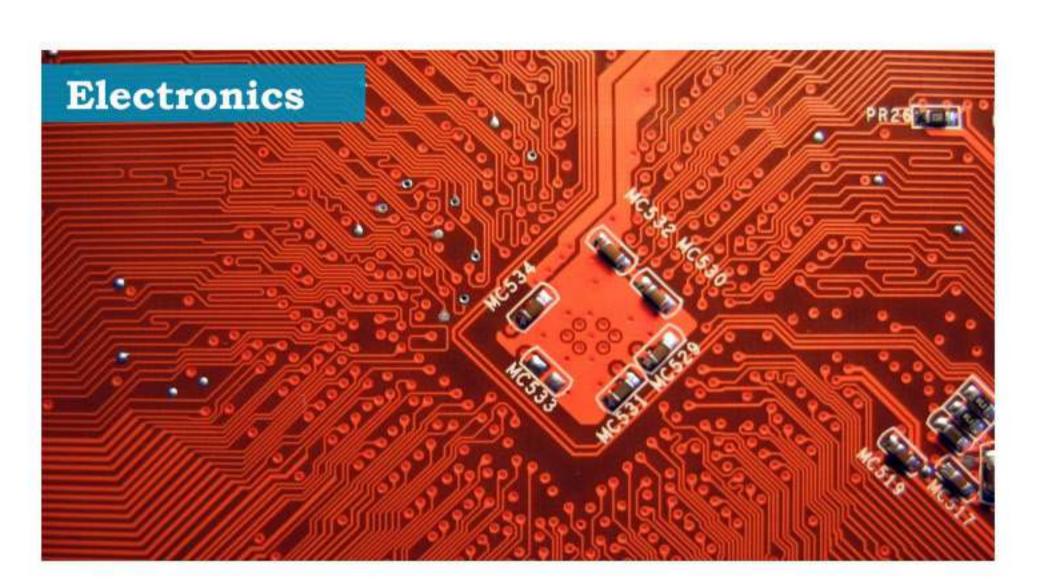
- 1. Competitive price structure
- 2. Quality products
- 3. Prompt service
- 4. Complete customer satisfaction
- 5. Dedicated workforce

## Industries Served







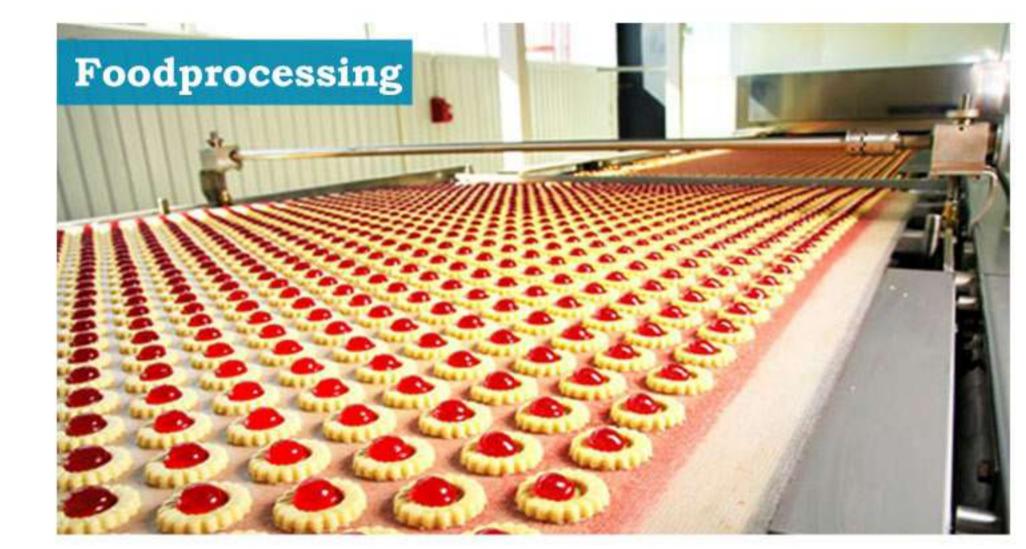


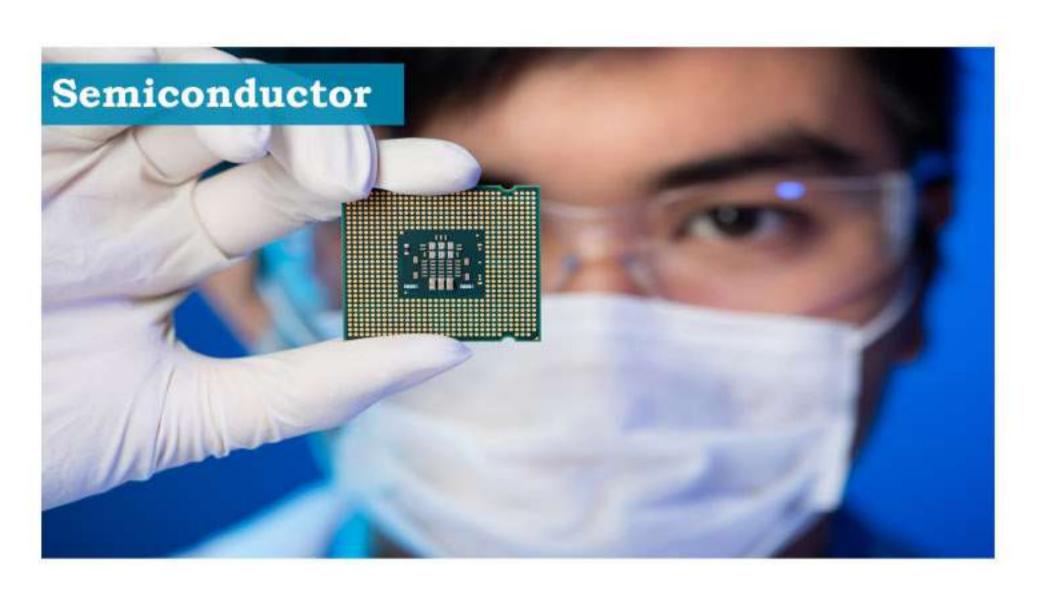


















- \* Cable Ties
- \* Anti Tracking Tube
- \* Dual Wall Adhesive Tube
- \* PTFE Siding Tape
- \* PTFE Cloth
- \* Cord end Terminals
- \* Acrylic Tube
- \* PG Glands
- \* Marking Sleeve
- \* Bakelite Sheet
- \* Expandable Sleeving
- \* HT Self Amalgamation Tape (LT&HT)

## Wholesale Dealer, Manufacturer & Importer

Every type of PTFE, Cast Nylon, Nylon, Delrin, PU, PP, HDPE, UHMWPE, Acrylic, Polycarbonate, Bakelite, Phenolic Cotton, Syndanio, Rubber, Silicone Sheet, Rod and Tube. Pvc rigid Sheet, Pvc Flexible Sheet, Pvc Strip curtain. All kinds of Shrinkable and Non Shrinkable Sleeving, Adhesive and Non Adhesive Tapes, Cable ties, PG Glands, Thimbles, Terminals and All type of Industrial Electricals.

3 1551-1554, First Floor Bhagirath Palace, Chandni Chowk, Delhi-110006, India. +91-11-23873025, +91-11-45621800 as sales@insulationsolutions.in









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## ENGINEERED PLASTICS

- \* PTFE Sheet, Rods Tube, Bushes, Balls & Washers
- \* PU Rod & Sheets.
- \* PP Rods, Sheets, Squares & Cut Sizes
- \* Nylon & Metlon Rods, Sheets, Squares & Cut Sizes
- \* Derlin Rods, Sheets, Square & Cut Sizes
- \* UHMW Rods & Sheets.
- \* Acrylic & Polycarbonate Sheets & Square
- \* Acrylic & Polycarbonate Tubes & Rods
- \* PVC Rigid Sheet (Grey& White Colour)
- \* PVC Flexible Sheet (Yellow & Transparent).
- \* Ebonite Rod & Sheet
- \* PTFE Coated Fibre Glass Cloth, Tape & Belts
- \* PVC strip curtain
- \* PEEK PVDF Rods and Sheets
- \* ABS Rods and Sheets

## ELECTRICAL INSULATION

- \* Bakelite (Fabric & Paper Base) Sheets, Rods & Tubes
- \* Fibre Glass Sheets, Rods & Tubes, Cloth & Tapes
- \* Syndhanio Sheet & Rod
- \* Silicon Rubber Sheet, Tubing, Cords & 0-Rings
- \* Press Board (Imported & Indian)
- \* Rubberised Cork Sheet (LOCAL & TALBROS)
- \* Asbestos Sheet, Rope & Cloth
- \* Nomex Paper F-Glass & H-Glass
- \* Mica Sheet& Tube,
- \* H.R.M Mica, GMG, Mica Powder
- \* Nichrome& Eureka Wire
- \* PTFE & Fibre Glass Cable

## INDUSTRIAL ELECTRICALS

- \* Cable Ties
- \* INSOL PG Glands
- \* INSOL EHI Terminals
- \* INSOL Industrial Fan
- \* INSOL Industrial Plug & Socket
- \* Close End Wire Connector (CEI, CE2, CE5 & CE8)
- \* Thimbles
- \* Foot Switch
- \* LED Indicating Light





## INDUSTRIAL SLEEVING

- \* Woer Heat Shrink Sleeve
- \* 3:1 DUAL Wall Adhesive heat Shrink Tube
- \* Anti Tracking Tube
- \* Busbar& Stress Control Tube
- \* PVC, Spiral & Marking Tube
- \* PVC Heat Shrink Tube
- \* Expandable Sleeving
- \* Fibre Glass Sleeve (B, F & H Glass).
- \* PTFE Sleeve
- \* Silicon Coated Fibre glass Sleeve (1, 1.5, 2.5, 4, 7 KV)

## **TAPES**

### **ADHESIVE:**

- \* PTFE Sealing, PTFE Film, Self Amalgamation, Nomex
- \* Silicon & Fibre Glass Tape, Kapton

## **NON ADHESIVE:**

- \* PTFE Plumbing, Silicon Rubber, Coon
- \* Weaving
- \* Resiglass-Bending, Empire
- \* Nomex, Fibre Glass (Varnished, Unvarnised), Mica Tape

## SAFETY PRODUCTS

- \* CRYSTAL Electrical Hand Gloves
- \* Rubber Matting (as Per Is 15652 & Is 5424)
- \* Asbestos Hand Gloves
- \* Safety Gumboots & Helmets

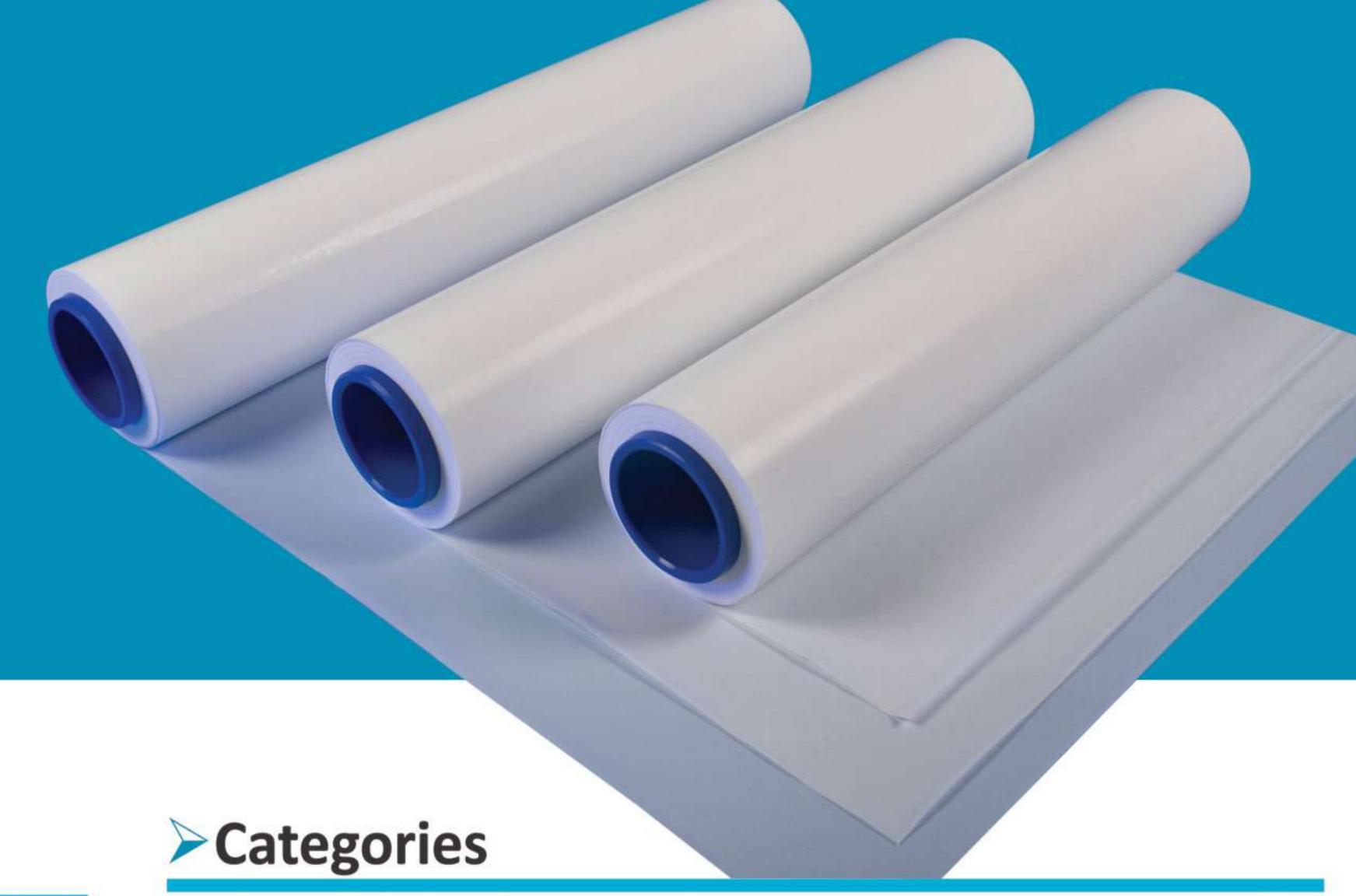
## OTHERS

- \* Ink Ribbon for MAX LM 380 & 390
- \* Silica Gel With Breather
- \* Brass Rod & Connectors For Transformers
- \* Ceramic & Glass Wool
- \* Rubber Gurmots
- \* All Type of Transformer, Furnace & Panel Board Accessories

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## PTFE Sheet



## > Features

- Low temperature and high temperature resistance (-180°C~+260°C)
- Corrosion resistance, weather resistance
- High lubricity, no adhesion
- Non-toxic
- Non-flammable
- Acid and alkali resistance (expect molten alkali metals)
- Antioxidant

## > Application

- Welded chemical containers, tanks
- Machinery, construction, transportation bridges slider, rail release material
- The production of sealing material
- Filling different material to enhance performance of the desired area according to customer requirements.

## > Main technical indicator

Property	Unit	Pure PTFE Result
Tensile	strength	Mpa≥ 15.0
Ultimate elongation	%	150~400
Apparent density	g/cm³	2.1~2.3
Dialectic strength	KV/mm	10
Resistance of surface (Working voltage 500V)	Ω	3.7 x 10 <sup>16</sup>

Molded Sheet	Produced by compression molding processing, moulding, sintering, cooling of suspension PTFE resin into pure sheets and filled sheets (color, copper powder, glass fiber, graphite, carbon fiber, black, carbon powder, polyphenylene, anti-static plates. etc).
Skived Rolled Sheet/Skived Tape	Produced by Skiving PTFE Granular Resin.
Skived Sheet	Produced by cutting and flatting skived rolled sheet.
Sodium Etched PTFE Sheet	Produced by sodium treatment of sheet surface according to customers'size requirement. dividing into single-sided and double-sided sodium treatment.

## Specifications

	Size			
Categories	Length (mm)	Width (mm)	Thickness (mm)	
	300	300	2~100	
	400	400	2~100	
	450	450	2~100	
	500	500	2~100	
	600	600	2~100	
Molded Sheet	800	800	2~100	
	1000	1000	2~100	
	1200	1200	2~100	
	1500	1500	2~50	
	1800	1200	2~50	
	1800	1800	2~50	
	2000	1000	2~50	
	2000	2000	2~50	
Skived Rolled Sheet / Skived Tape	10~2700 0.03~1		0.03~10	
Skived Sheet	10~2700	10~2700	0.03~10	
Sodium Etched PTFE Sheet			0.02~10	



## PTFE Rod



## Features

- Low temperature and high temperature resistance (-180°C~+260°C)
- Corrosion resistance, weather resistance
- High lubricity, no adhesion
- Non-toxic
- Non-flammable
- Acid and alkali resistance (expect molten alkali metals)
- Antioxidant

## > Application

- Battery Electrode, Electric Products
- Lubricate Bearings, Piston rings, oil seals and other machinery,
- Filling different material to enhance performance of the desired area according to requirements of customers.

## > Categories

Moulded Rod	Produced by compression molding into Pure rod and filled rod. (color, copper powder, glass fiber, graphite, carbon fiber, carbon powder, polyphenylene.etc)
Extruded Rod	Produced by plunger extrusion processing of suspension teflon resin into pure rods, graphite rods and glass fiber rods.
Pasted Rod	Produced by paste push processing of dispersion polymerization teflon resin.

## Main technical indicator

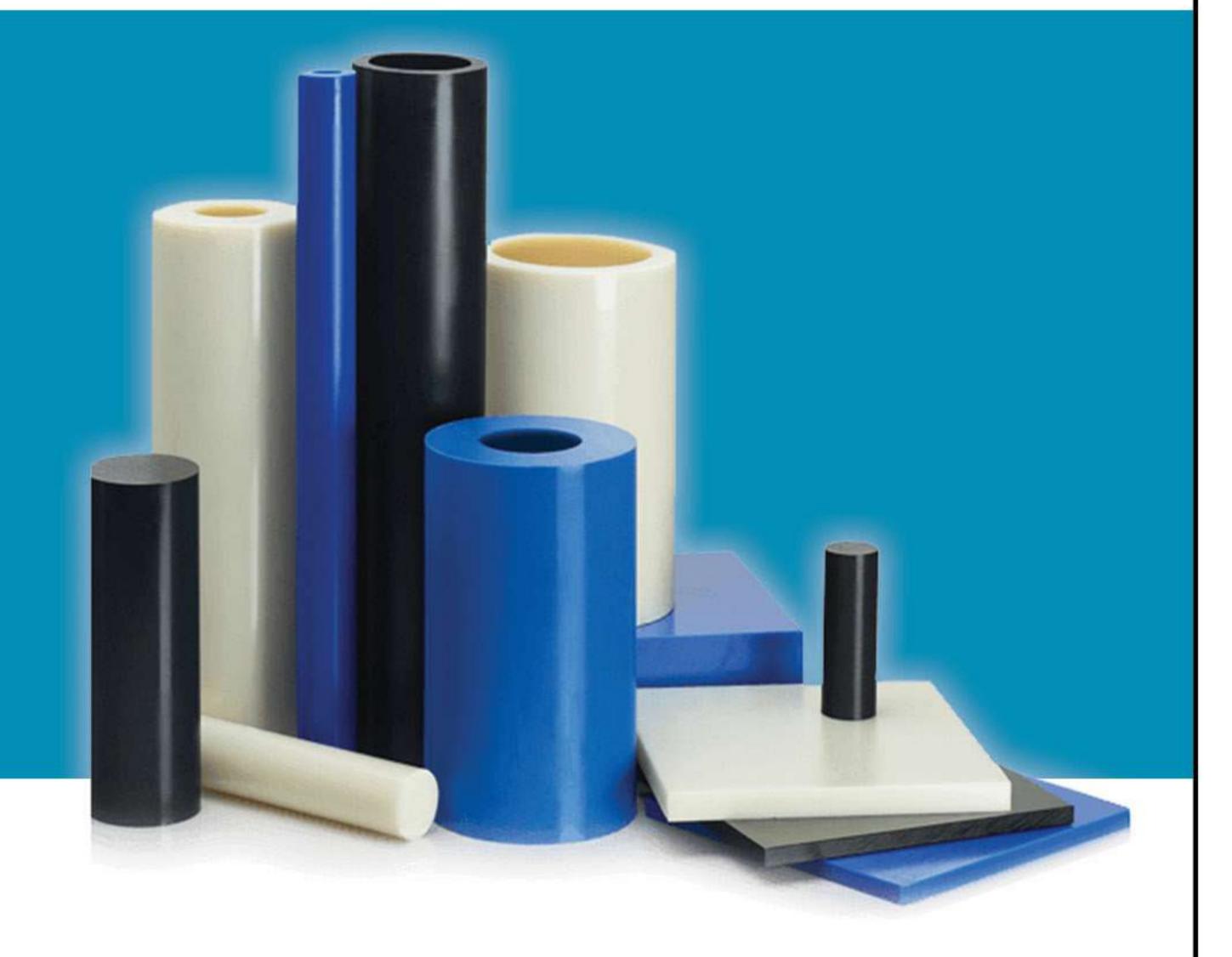
Property	Unit	Pure PTFE Result
Apparent density	g/cm³	2.10~2.30
Tensile Strength(min)	Mpa	14
Ultimate Elongation (min)	%	140

## > Specifications

		Size			
Categories	Length (mm)	Width (mm)	Thickness (mm)		
Moulded Rod	300	300	2~100		
Extruded Rod	400	400	2~100		
Pasted Rod	450	450	2~100		



## Nylon Products



## > Features

- Mechanical strength, high stiffness, hardness, toughness
- Good aging resistance
- Good mechanical damping ability
- Good sliding properties
- Xcellent wear properties
- Machinability

## > Main technical indicator

/PA66
0~1.14
60
≽30

## > Categories

Nylon sheet	Extruded and casted nylon sheet
Nylon rod	Extruded and casted nylon rod

## > Specifications

	Size					
Categories	Length (mm)	Width (mm)	Thickness (mm)	Diameter (mm)	Length (mm)	
Nylon Sheet	250~2000	250~2000	6~150			
Nylon rod				8~270	no limit	

## > Application

ngineering

a) Cranes / Fork lifts / Conveyo

o) Ropeways

Paper /Sugar Mill

Gears, cams, sprockets, bushes, bearings, gaskets, pulleys, liners.

Loom pivot bearings, gears for loom and knitting machines, shuttles, rollers, cams and cam followers. Bearings, bearings cages, slipper pads, gears, bushes, wear strips, rollers, eccentric rollers, wobble box inserts.

Material Handing Equipment's Crane sheaves, bearing pads, bushes, rollers, thrust washers, slides, guides, idle and drive sprockets, gears, wear strips and plates.

Wheel liners (tyres), wheels, bushes.

Wear rings, pads, swivel bushes, throttle linkages, bushes, shackle pin bushes. Bushes, gears, rings, trunnion bearings, rollers and roller bearings, stern tubes.

Gears, bushes, pulleys, rollers, bearings.

Starwheels, scrolls, guides, cams, cam followers, rollers, timing screws.

Bushes, wear plates.

Balls, gaskets, liners, nuts & bolts.



Polytetrafluoroethylene (PTFE) Tube



## > Features

- Low temperature and high temperature resistance (-180°C~+260°C)
- Corrosion resistance, weather resistance
- High lubricity, no adhesion
- Non-toxic
- Non-flammable
   Asid and all all aside
- Acid and alkali resistance (expect molten alkali metals)
- Antioxidant

## > Application

- Insulating sheath, mechanical anti-corrosion pipe, anti-corrosion insulation pipe.
- Heat exchangers, lubricated bearing, piston rings, oil seals and seals, etc.
- Construction, rail involved release materials of guide rail.
- Filling different material to enhance performance of the desired area according to customer requirements.

## **Categories**

Moulded Tube	Produced by compression molding into Pure rod and filled tube. (color, copper powder, glass fiber, graphite, carbon fiber, carbon powder, polyphenylene.etc)
Extruded Tube	Produced by plunger extrusion processing of aerosol Teflon resin.
Pasted Tube	Produced by paste push processing of imported dispersion polymerization teflon resin.

## > Main technical indicator

Property	Unit	Pure PTFE Result	
Apparent density	g/cm³	2.10~2.30	
Tensile Strength(min)	Mpa	18	
Ultimate Elongation (min)	%	230	

## Specifications

	Size			
Categories	External Diameter(mm)	Internal Diameter(mm)	Thickness (mm)	Length (mm)
Molded Tube	12~950	6~700		20~400
Extruded Tube		10~445	2~10	≥1000
Pasted Tube		0.3~40	0.1~5.0	

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## PTFE Braided Packing



## > Features

- ·Resistance aganist weather
- ·High Temprature Resistance
- Longer Shelf Life
- Certain Plascity
- Chemical Stability
- Impermeability
- Good self-lubracting

## > Application

- Centrigugal Pumps
- Compresssors
- Vaccum Pumps
- Mixers and ship propeller shafts seals
- Piston pumps
- Reciprocating Compressors
- Reciprocating Chiller seal
- Variety of rotating the valve stema seals

## Categories

Teflon (PTFE) braided packing, also called seal packing is braided by soft strands and filled with strips of square, rectangular and circular cross-sectional to achieve sealing

White PTFE Packing	Into oil and non-oil PTFE packing
Black PTFE Packing	Into oil and non-oil PTFE packing
Other PTFE Braided packing	Aramid corners black PTFE packing, separate wire PTFE packing, etc.

## > Main technical indicator

Property	Unit	Pure PTFE Result
Tensile Strength(min)	Mpa	7
Ultimate Elongation (min)	%	120

## > Specifications

Products	Thickness	Size	Color
White PTFE Packing	3mm-25mm	1Kg to 5 Kg	Color White
Products	Diameter	Length	Color
Black PTFE	3mm-25mm	1Kg to 5 Kg	Black

> Features > Cate

PTFE Ball, Welding

and Shaped Parts

- Low coefficient of friction
- Good Self-lubrication
- Excellent sealing performance
- Dimensional stability, no distortion
- Erosion Resistent
- Chemical Stability

## > Application

- Seals of corrosive media with temperature from -180°C~+260°C, corrosion road parts, anti
- corrosion chemical containers
- Antifriction mechanical equipment, no call lubrications materials
- Insulating parts under various frequencies.

## > PTFE Components

- PTFE Nozzles
- PTFE Shopcock
- PTFE Keys
- 4. PTFE Valve Seats
- PTFE Ball
- PTFE Bellons
- 7. PTFE Rings
- PTFE V Ring Set

## > Categories

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Produced by molding PTFE resin at room temperature, then sintering at high temperature after secondary processing.

PTFE Ball	PTFE ball with different diameters
PTFE Welding products	The main production: sinks pressure vessels for the chemical industry
Other shaped parts	Produced according to customer's requirement

## > Main technical indicator

Property	Unit	Pure PTFE Result
Apparent density	g/cm³	2.10~2.30
Tensile Strength(min)	Мра	15
Ultimate Elongation (min)	%	150

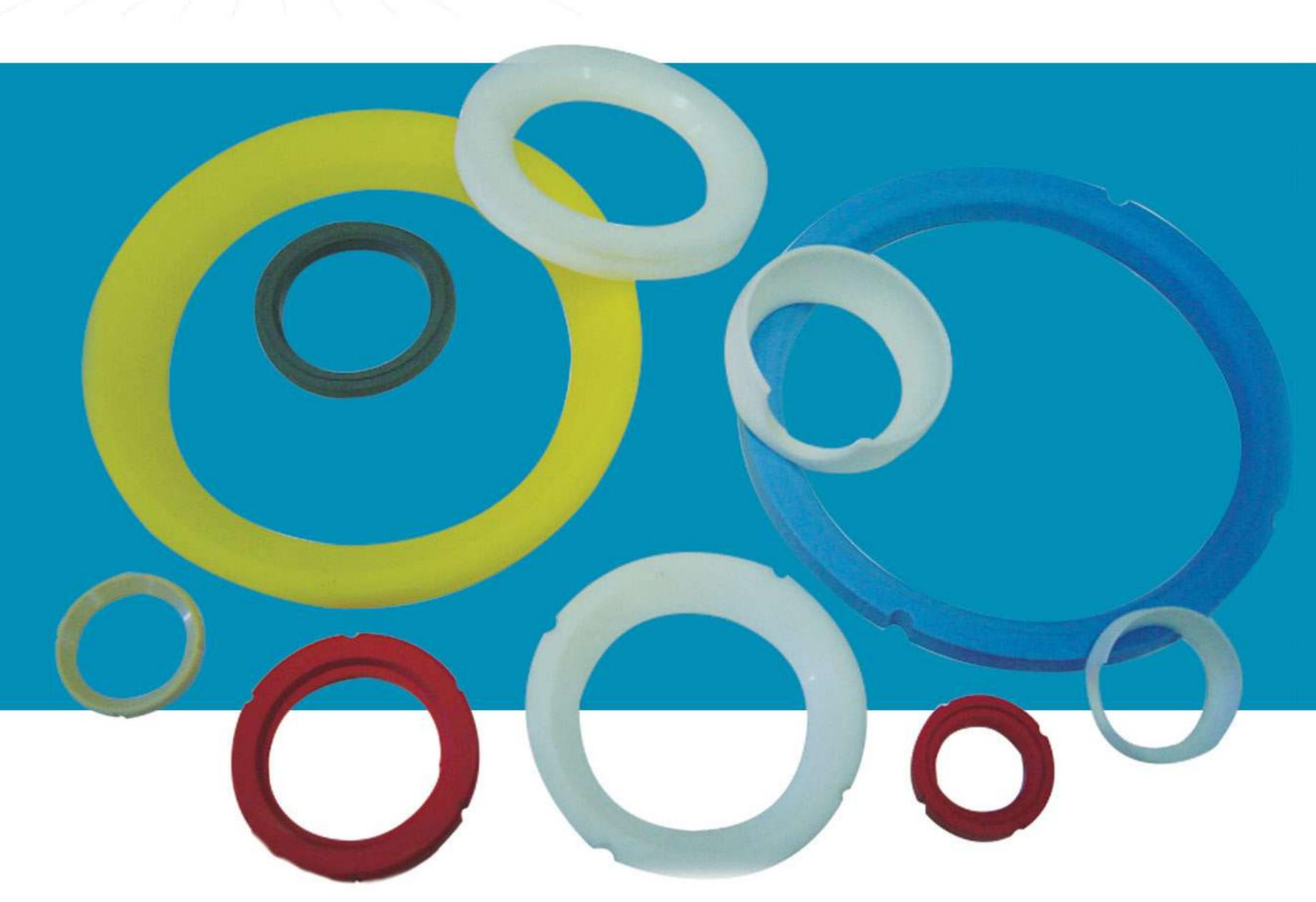
## > Specifications

- PTFE ball specifications: Ф2-Ф300mm
- Welding products and other shaped parts according to customers' drawings

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PTFE Gasket



## > Features

- Excellent flexibility, resilience crunch, creep resistance.
- High temperature resistance.
- Excellent corrosion resistance, aging resistance
- Self-lubricating.

## > Application

- It has effect of sealing, conditioning oil, thermal (heat), orientation (support), which is widely used in a verity of power machinery
- Power Machinary
- Electrical Appliances
- Food, Beverage
- · Pharma Cemicals
- Laboratories
- ·chemical Processing

Petrochemicals

Electrical Motor

## > Categories

Produced by molding and mechanical processing of Suspension PTFE resin.

Pure Gasket	100% pure PTFE to make gasket
Filled Gasket	Fill different materials according to customers' requirement such as carbon powder, polystyrene, glass fiber, graphite copper powder, etc.

## > Main technical indicator

Property	Unit	Pure PTFE Result
Apparent density	g/cm³	2.10~2.30
Tensile Strength(min)	Мра	15
Ultimate Elongation (min)	%	150

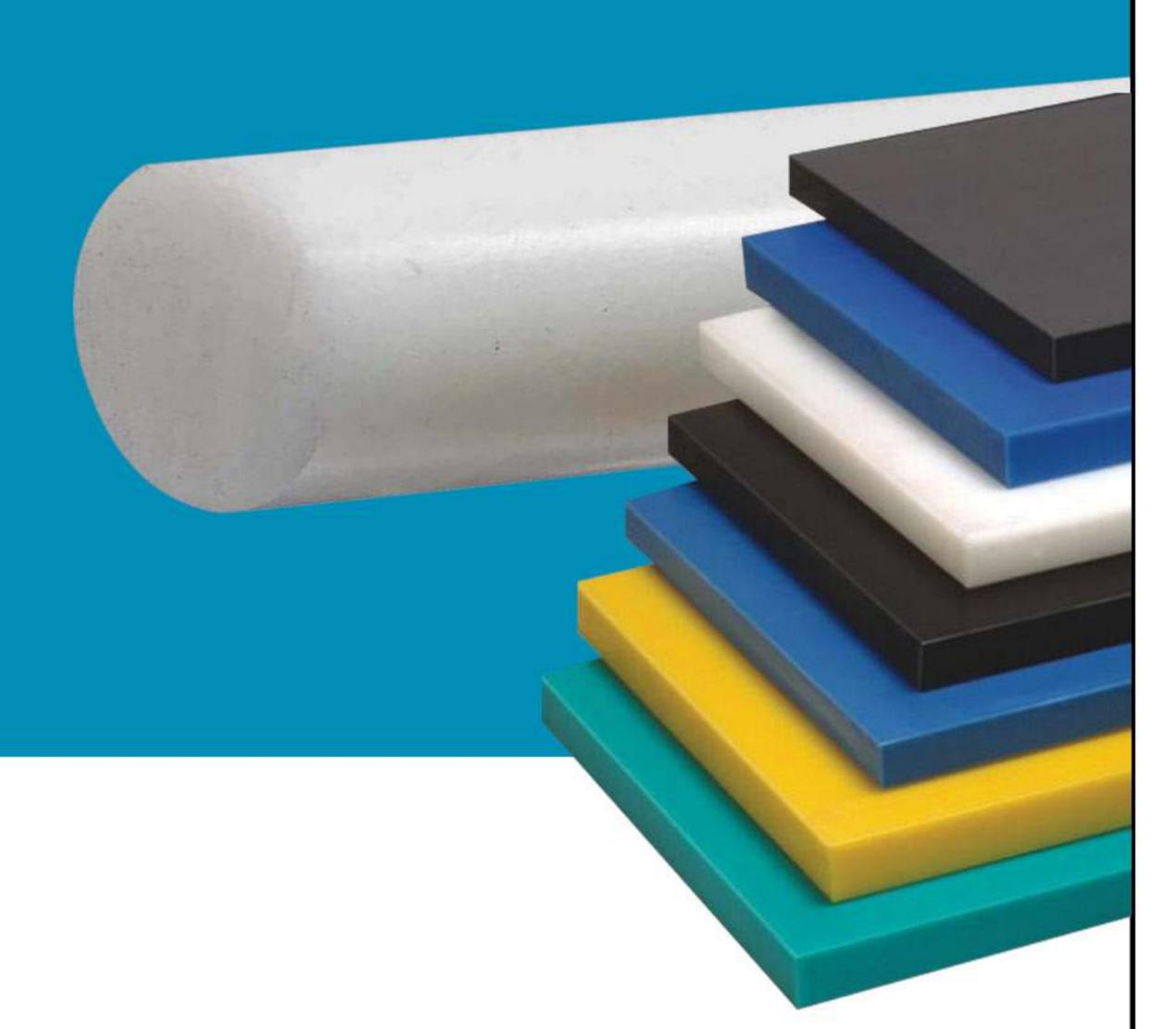
## > Specifications

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Wide range of categories, could process according to customers' requirements.



## High Density Poly Ethylene (HDPE)



## > Features

- Low Density
- Soft surface, high toughness, good protection against stress cracking
- High elongation
- Very low water absorption, and steam permeability
- High chemical resistance
- HF welding not recommended, difficult to varnish and glue
- The melting point: +130°C

## > Application

- Food Processing
- Construction
- Telecommunication
- Electrical Engineering
- Textile Processing
- · Automotive, etc.,
- Geo Textile, Earth Applications
- Liner for Gas Lines, other Lining jobs
- Chemical industry
- Medical industry

## > Main technical indicator

Property	Unit	HDPE
Apparent density	g/cm³	0.95
Tensile Strength	Mpa	≥ 30
Melting Temperature	°C	130

## > Specifications

Products	Thickness	Size	Color
HDPE Sheet	1mm-100mm	1.22m*2-44m 1mtr*2mtr Desired size	Natural, Black, Desired color
Products	Diameter	i anali	
Products	Diameter	Length	Color

## Insulation Solutions In Service of Industrial India

Polyether ether ketone(PEEK)



## > Features

- Thermo stability
- Corrosion resistance is strong
- Aging resistance
- Wear Resistance. High mechanical strength
- Weather resistance, anti-ultraviolet radiation and nuclear radiation
- Have a high dielectric strength
- Working temperature (-80°C-+300°C)

## > Application

- Peek has been widely used in aerospace, automobile manufacturing, electronic and electrical, medical and food processing and other fields, and can be replaced by aluminum and other metal materials for various parts and sealing products.
- Due to it's strength PEEK is used to make items like bearings, piston parts & pumps, HPLC columns, Compressor plate valves and cable insulation, Plastics compatible with vacuum applications.
- It is also used extensively in the, automotive, and chemical process industries as well as train and underground applications.

## Categories

PEEK Sheet and rod.

PEEK Glass fiber reinforced sheet and rod.

## Main technical indicator

Property	Unit	Peek	Peek-GF30
Apparent density	g/cm³	1.3	1.5
Tensile Strength(min)	Мра		≥180
Ultimate Elongation (min)	%	≥25	≥2.5

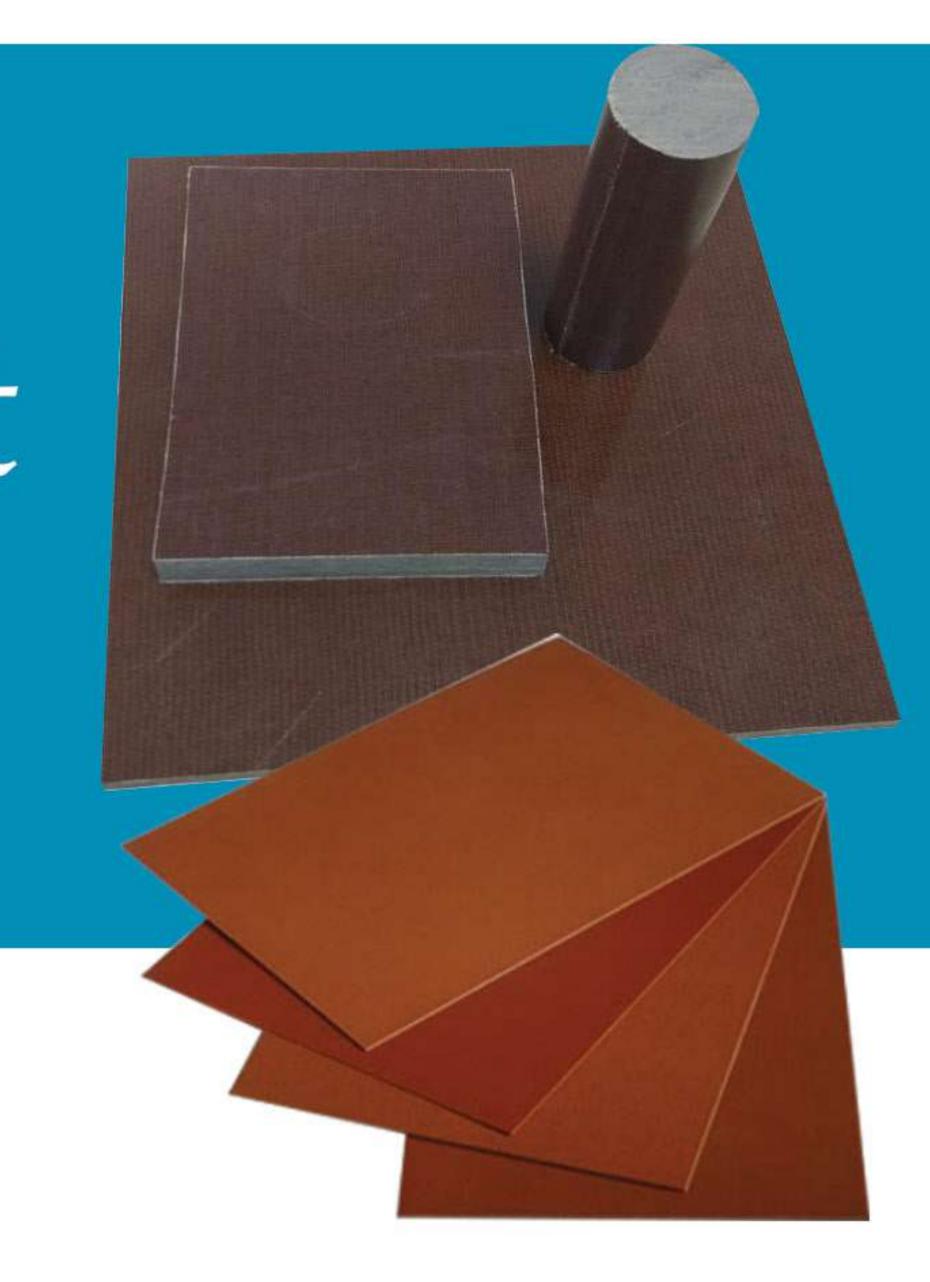
## Specifications

Products	Thickness	Size	Color
PEEK / PEEK – Gf30 Sheet	6mm-100mm	600mm*1000mm	Nature black
Products	Diameter	Length	Color
PEEK / PEEK – Gf30 Rod	6mm-150mm	1000*2000	Nature black

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## Phenolic cotton sheet (Bakelite)



## > Features

- Excellent physical, mechanical and dielectric properties
- Withstand all kinds of machining
- Excellent machinability
- Mechanical properties and electric properties
- Low maintainance and high strength
- Superior machining, punching and chemical resistance.
- Offers excellent Strength:Weight ratio

## Application

- Shuttle gears, Pulleys
- Automobile couplings
- Structural parts, Spindles
- Machine tool fibs/Slide waxes Low voltage contract breakers Friction plates
- Rolling Mill bearings
- Heavy Duty Gears
- Pulleys
- Automobile couplings
- Machine tools fibs/Slid Waxes
- Friction plates

## Categories

PHENOLOC: Phenolic cotton laminated sheet, Phenolic paper laminated sheet, phenolic cotton laminated rod:

Epoxide: glass fabric laminated sheet and rod.

## > Specifications

Products	Thickness	Size
Phenolic cotton laminated sheet	3-150mm	1220*2040 1020*2020
Phenolic Paper laminated sheet	0.5-50mm	1030*2070 1220*2440
Epoxide glass fabric laminated sheet	0.1-50mm	1020*2440
Products	Diameter	Length
Phenolic cotton laminated rod	10-250mm	1000mm
Epoxide glass fabric laminated rod	0.3-100mm	1000mm

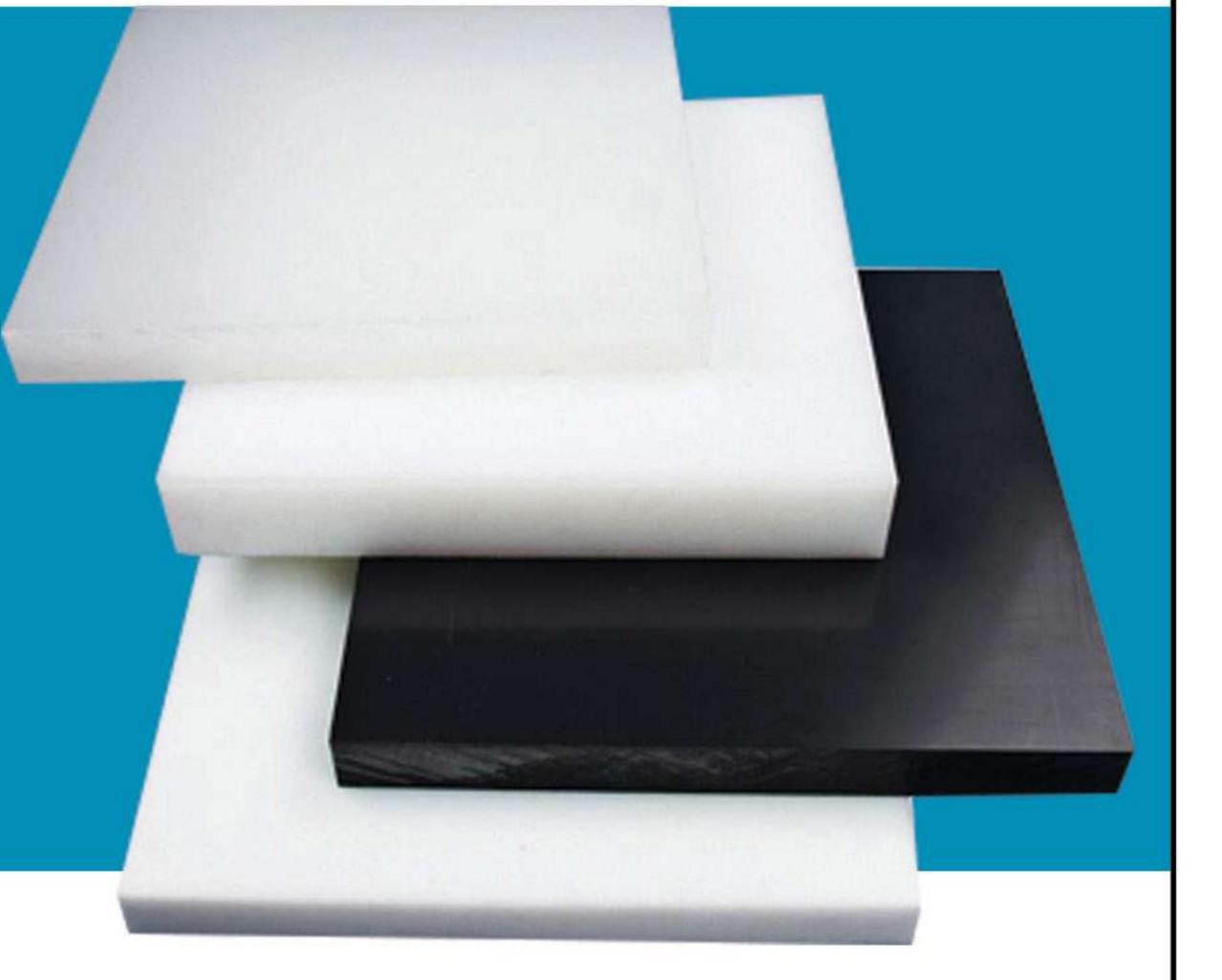
### Main technical indicator

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Property	Unit	Pure PTFE Result
Density	g / cm <sup>3</sup>	1.45 g
Tensile strength	g / cm <sup>3</sup>	800 kgf
Shear strength	g / cm³	600 kgf



## Poloxymethylene (POM)



## > Features

- ·Wear Resistance, High Hardness, High Strength
- Excellent dimensional stability
- Continuous use temperature of 180°F
- Porosity free
- Consistent properties in wet or moist environments
- Very low moisture absorption
- Excellent electrical properties
- Easy to machine to close tolerances

## > Application

- Bushings and bearings
- Rollers and gears
- Valves and manifolds
- Scraper blades
- Wear strips and pads
- Jigs and fixtures
- Electrical components
- Parts which operate in water between 60 to 90C

## > Main technical indicator

Property	Unit	POM
Apparent density	g/cm³	1.4~1.5
Tensile Strength(min)	Мра	50-70
Ultimate Elongation (min)	%	≥25

Products	Thickness	Size	Color
POM Sheet	6mm-200mm	1000mm*2000mm 600mm*1200mm	Natural, Black
Products	Diameter	Length	Color

Property	Unit	POM
Apparent density	g/cm³	1.4~1.5
Tensile Strength(min)	Mpa	50-70
Itimate Elongation (min)	%	≥25

## > Specifications

Products	Thickness	Size	Color
POM Sheet	6mm-200mm	1000mm*2000mm 600mm*1200mm	Natural, Black
Products	Diameter	Length	Color

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## Polyvinylidene fluoride (PVDF)



### > Features

- Mechanical strength & toughness
- High thermal stability
- High dielectric strength Readily melt processable
- Exceptional outdoor weather resistance
- Low permeability to most gases and liquids
- Low flame and smoke characteristics
- High abrasion resistance
- Very low creep
- High purity
- Resistance to most chemicals and solvents
- Resistance to nuclear radiation
- Resistance to fungi
- Very smooth surfaces can be obtained

## > Application

- Process Industry
- Sugar Industry
- High purity applications
- Paper & pulp Industry
- Electronic, electrical & semi-conductors industry
- Nuclear power industry
- Pharmaceutical Industry
- Automotive Industry
- Solar power panels
- DI water plants

Main technical indicator

Property	Unit	PVDF
Apparent density	g/cm³	1.77-1.8
Tensile Strength(min)	Мра	≥15
Ultimate Elongation (min)	%	≥150
Electrolytic Strength	Kv/mm	≥10

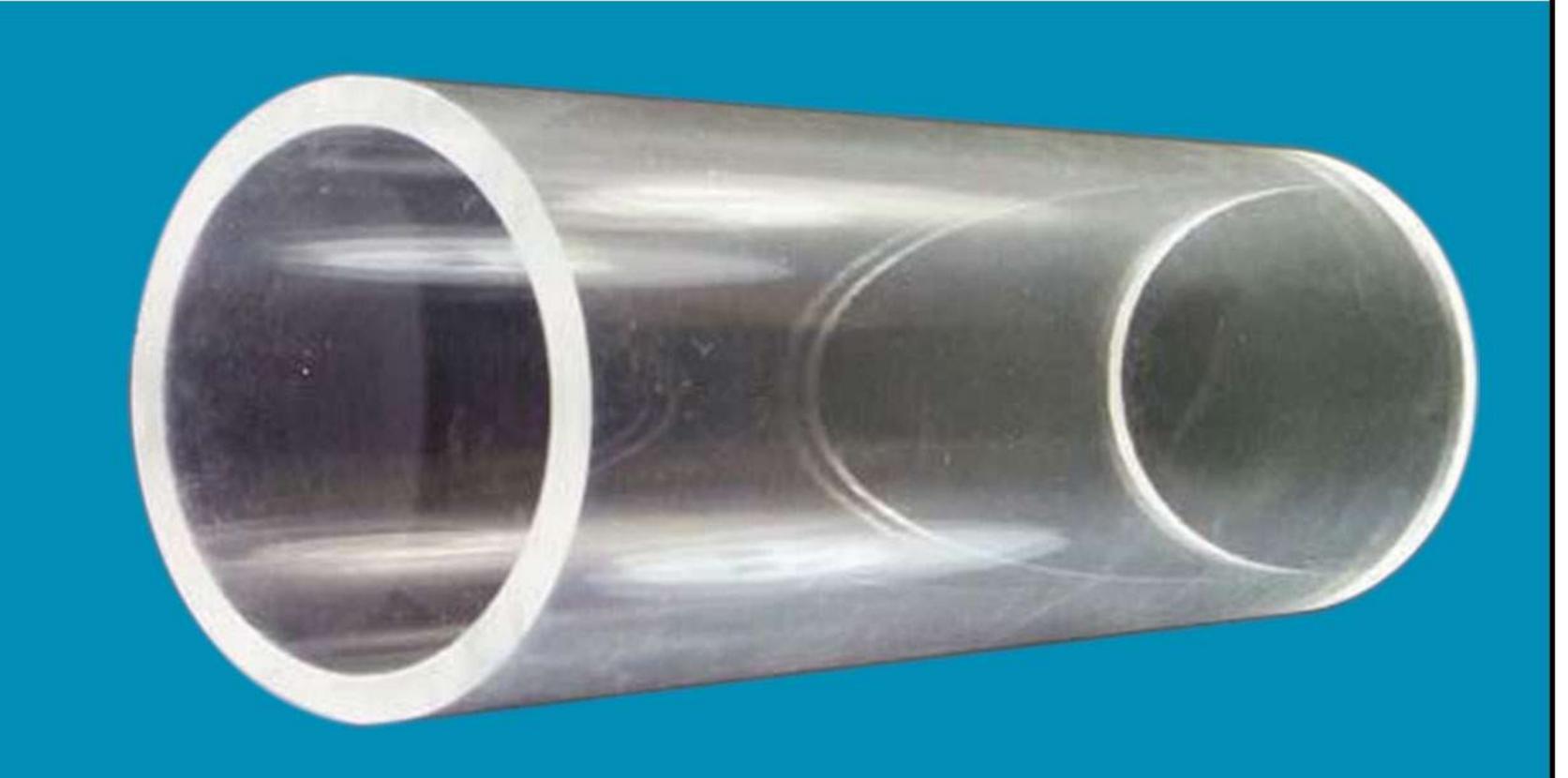
Thickness(mm)

## > Specifications

Length*Width	Nominal	Tolerance
150x150	1.0- 150	±0.30 - ± 0.50
250x250	1.5 - 100	±0.30 - ± 0.50
300x300	1.5 – 100	±0.30 - ± 0.50
450x450	1.5 – 100	±0.30 - ± 0.50
600x600	1 – 100	±0.30 - ± 0.50
800x800	1 – 100	±0.30 - ± 0.50
1000x1000	1 – 100	±0.30 - ± 0.50
1200x1200	2 – 100	±0.30 - ± 0.50
1500x1500	3 – 100	±0.50 - ± 0.80
1600x1600	3 – 100	±0.50 - ± 0.80
2000x2000	3 – 100	±0.60 - ± 1.0
1800x1800	3 – 100	±0.60 - ± 1.0
2000x2000	3 – 100	±0.60 - ± 1.0



## Acrylic Tube & Rod



## > Features

- Extruded and cast acrylic pipe high quality with competitively price
- 93%-95% transparency and smooth
- Customized design
- Good and specialized service
- Acrylic tube made from high PMMA material (acrylic 100%)
- Used for struction or decorations, also for medical
- appliance
- Specialized design for you, such as style and concept and color.
- No spot, no dirty, no scratch will be available.
- We also offer polishing, drilling, threading, cutting,
- printing, laser engraving, CNN milling etc.
- Our products has approved by SGS
- Can do any length is available.

## Main technical indicator

Property	Unit	PVDF
Apparent density	g/cm³	1.2

## Specifications

Products	Thickness	Size	Color
Acrylic Tube	70-400mm in 600mm	6mm-100mm in 2000mm	
Products	Diameter	Length	Color
Acrylic Rod	70-400mm	5mm-200mm	

## > Applications

Abrasion Resistant Linings

- Used in hardware, machinery, electronics and other industries.
- Grar Seals
- Jig & Fixtures
- Mallets Punch-strippers
- Screens
- Spacers
- Rollers & Sleeves
- Suspension Bushes
- Scrappers Blades
- Wheels
- Wear Plates

Property	Unit	PVDF
Apparent density	g/cm³	1.2

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Products	Thickness	Size	Color
Acrylic Tube	70-400mm in 600mm	6mm-100mm in 2000mm	
Products	Diameter	Length	Color

## > Features

 Excellent Thermal Impact (Temp. Index: -273°C to +155°C) Excellent Mechanical Strength & Automatic Machining Excellent chemical Resistance & radiation resistance

Rod & Tubes

- The material is known to retain its high mechanical values and electrical insulating qualities in both dry and humid conditions
- Glass epoxy is a popular and versatile high-pressure thermoset plastic laminate grade with good strength to weight ratios
- It has a very low water absorption rate

## > Applications

- Electro-magnets as interlayer insulation
- Switch gears as terminal plates
- Separators for air blast tubes and air chambers with numerous linkages
- Connection rods and leavers
- Epoxy Glass Laminated Sheets Rods / tubes are widely used as rod bolts in transformers-stacks capacitors, transformers, mounting rods and circuit breaker shafts
- FR4 laminated sheets are widely used in every kind of switch cubicle such as bursting disk, arc extinguishing chamber, arcing cylinder, arcing piece, flash barrier, wiring board, terminal plate insulating supports;
- Structure parts and bus bar supports in switchgear & transformer; the armature parts of electrical machine such as cover plate, slot wedge, stator gasket, shims carbon brush etc.
- The epoxy glass fiber laminated sheet series are used much more extensively in consumer electronics, panel

## > Specifications

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Products	Thickness	Size	Color
Epoxy Sheet	1mtr x 2mtr 1220mm x 2440mm	0.3mm-50mm	Green & Yellow
Products	Diameter	Length	Color
Epoxy Tube	1mtr to 2mtr	ID6mm to OD 150mm	Green & Yellow
Epoxy Rod	1mtr to 4mtr	ID 3mm to OD 100mm	Green & Yellow

## Main technical indicator

Property	Unit	Ероху
<b>Density</b> ≥	G/cm3	1.70 -1.79
Water absorption, D-24/23 ≤	%	0.5 (F13mm)
Flexural strength ≥	Мра	241.30



Polyurethane (PU)



## Features

- Good wear-resistance performance
- Good elasticity
- Stamping resistance Easy processing
- Cost effective
- Dependable
- Elastomers combining the performance advantages of engineering plastics,
- ceramics and metals
- Resilience and flexible as rubber
- High life expectancy

## > Applications

- Used in hardware, machinery, electronics and other industries.
- Pads
- Abrasion Resistant Linings
- Grar Seals
- Jig & Fixtures
- Mallets
- Punch-strippers
- Screens
- Spacers
- Rollers & Sleeves Suspension Bushes
- Scrappers Blades
- Wheels
- Wear Plates

## Specifications

Products	Thickness	Size	Color
PU Sheet	2mm-500mm	300*300mm, 1m*1m,1m*4m	Natural yellow color
Products	Diameter	Length	Color

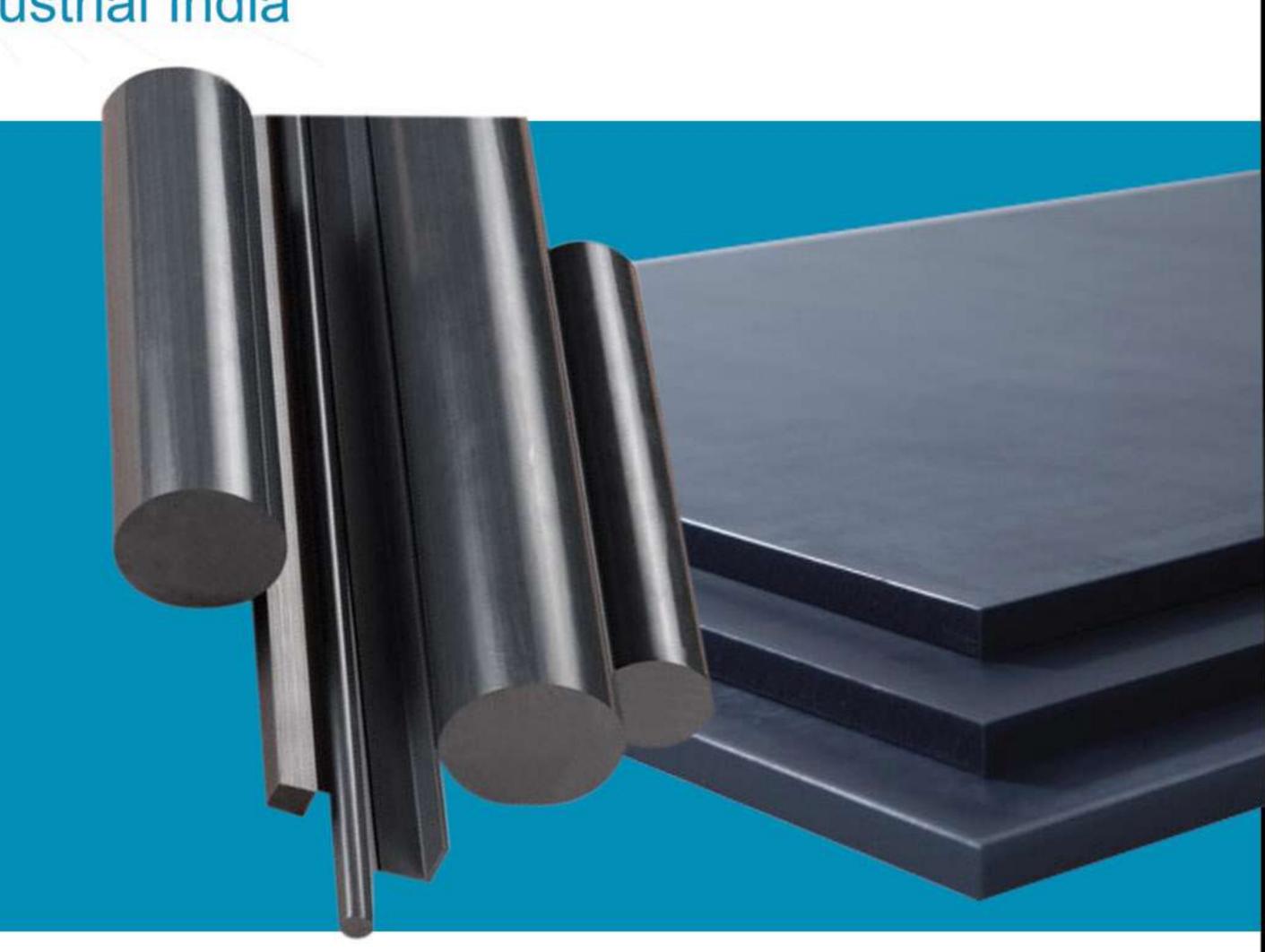
## > Main technical indicator

Property	Unit	PU
Apparent Density	g/cm³	1.12-1.25
Hardness	Shore D	50-100

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PVC Rigid



### > Features

- Strong and durable
- Good Thermal insulation
- Good Dimensional Strength
- Good Electrical insulation
- Fire Retardant Properties
- Good Chemical Resistance
- Low Moisture Absorption
- Easy to join using Solvent Cement Easy to weld like other thermoplastics
- Wide skill / experience availability for fabrication
- acitivties
- FDA compliant

## > Main technical indicator

Property	Unit	PTFE Cloth
Apparent density	g/cm³	1.45-1.8 g/cm <sup>3</sup>
Tensile Strength	Mpa	55
Temperature	.C	-50 to 70

## > Application

- Chemical tanks and vessels
- Ducts and gutters to carry chemicals
- Control cabinets and panels
- Equipment for corrosive environments
- Paper making chemicals
- Vessel Lining
- Chemical Flooring
- Flexible PVC Strip Curtains
- Industrial Fabrication activity
- Valve and Pump Housing Manifolds & Slurry Conveyance
- Fire retardant applications
- Fume Scrubbers & FRP Applications

## > Specifications

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Products	Thickness	Size	Color
PVC Rigid Sheet	2mm-30mm	1.3*2 Mtr 1.22*2.44 Mtr	Light Gray & Dark Gray
Products	Diameter	Length	Color
PVC Rigid Rod	6mm-100mm	1000mm & can be customized	Light Gray & Dark Gray

STOP WELDING GLARE

strip curtains are the second line of defence.

PVC Strip

PVC Strip Curtains save energy and reduces heat

PVC Strip Curtains protects from dust, fumes,

noise, pests, spray, dirt, smoke, fumes and keeps

PVC Strip Curtains are best solution for places

where Unlimited access by vehicles and

Pedestrians. They are also fully transparent that

Our PVC strips curtains are available in various

choices of grades depending on application

Fitting strip curtains to your doorway gives you another layer

of thermal control that lets people in but keeps warm air out.

Strip curtains keep out insects and bacteria that flow in through an open

For hygiene-controlled areas, such as laboratories and packaging plants,

Curtain

> Features

the atmosphere hygiene.

help provide maximum visibility.

> Applications

Laboratory-proven to save energy.

MAINTAIN HYGIENE

SAVE ENERGY

Cut refrigeration costs.

Cut air-conditioning costs.

(Commercial/ Residential/ Industrial)

or cold air loss.

Welding-bay PVC curtains stop flare and sparks, while allowing easy

Made from self-extinguishing PVC.

 Mount your strip curtain to a track system so you can slide the curtain away when not in use.

## Specifications

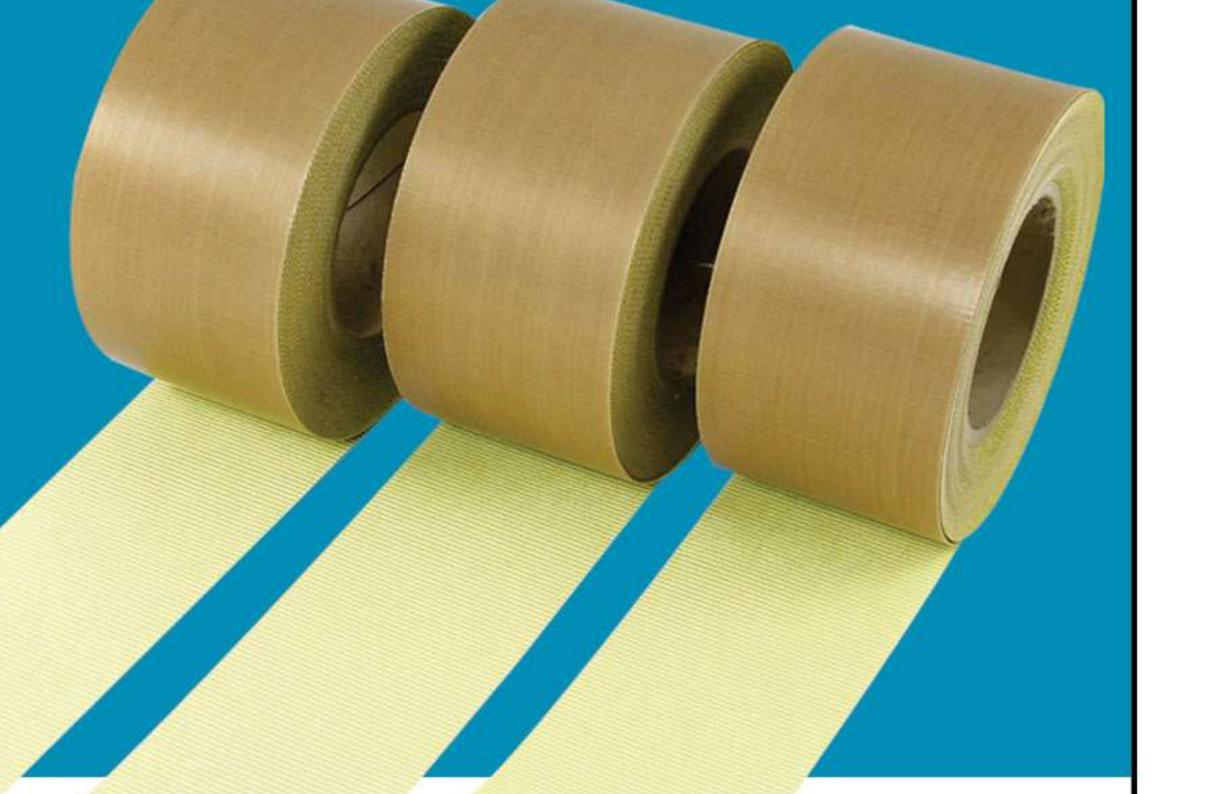
Insulation Solutions

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Type	Welding strip curtains/Standard clear door curtains/Polar door curtains/Anti-Insect door curtains/Anti-static door curtains/Anti-ultraviolet door curtains
Polar Size	2mmx200mm, 3mmx300mm, 4mmx400mm, 3mmx200mm, 1mmx200mm, 2mmx300mm.
Color	Standard clear, blue, yellow, red, dark green, etc. we can make any color depending on your requirements.
Styles	Smooth, Single ribbed, Double ribbed
Effection	Transparent, Translucent, Opaque
Application Temperature	-50°C to + 50°C
Size	Thichness:1mm-10mm Width:0.1m to 1.8m Length:1 m to 50m
Packages	Each roll will be packed by PVC shrink film or woven bag,



PTFE Coated Fibre Glass Cloth and Tapes



## > Features

- Resistance to temperature from 70°C~+280°C.
- Resistant to weather and aging.
- Low friction and Non stick property,
- Chemical corrosion resistance.
- Excellent insulation and dielectric property Resistant to Ultraviolet, microwave and radio frequencies
- Chemically inert and hence suitable for the food
- Light weight and energy efficient

## > Application

 Used as liners to resist high temperature, such as microwave liner, oven liner, or other liners;

Used for welding of plastics and used as welding cloth

- for solder.
- It is used as a conveyer belt due to its resistance to viscidity.
- Used for high insulation of electric and heat resistant envelope.
- Used as covering or wrapping material in petroleum and chemical industries.
- Used as insulating material in electrical industries.
- Used as desulfurizing material in power plant etc.

## Main technical indicator

Property	Unit	PTFE Cloth
Apparent density	g/cm³	1.10~1.14
Tensile Strength(min)	Mpa	>170
Adeshive Strength	n/mm	>28

## > Specifications

	Size		
Categories	Length (mm)	Width (mm)	Thickness (mm)
PTFE Cloth	10 mtr to	6mm to	0.08 to
	1000 mtr	12 mm	0.76 mm
PTFE Tape	10 mtr to	6mm to	0.13 to
	1000 mtr	12 mm	0.25 mm

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## Polypropylene (PP)



- Excellent Chemical Resistance: Increases reliability and scope of use
- High Thermal Resistance: Less vulnerable to weathering
- High Stress Crack Resistance: Prevents inching growth of cracks
- Excellent Fusion Capabilities: Ease of installation
- Low density, Low weight: Ease of transportation
- Homogenous structure: Aesthetically superior.
- Good elasticity: Easy installation
- Non Toxic, Food Grade
- High Impact Strength: Better durability
- Smooth Inner surface: Low frictional loss
- Good Thermal insulation
- Very good fatigue resistance
- Excellent dielectric properties

## > Application

- Acid Fillings Stations
- Laboratories
- Automotive Industry
- Nuclear Research Centres
- Chemical Industry
- Paper & Pulp Mills
- Construction (Plumbing)
   Pharmaceutical Industry
- Desalination Plants
- Pickling Lines
- Effluent Treatment / Disposal Plants
- Refineries
- Electroplating Plants
- Textile Mills; Food & Beverage
- Thermal Baths
- Galvanizing Plants
- Water Purification Plants

## > Main technical indicator

Property	Unit	PP
Apparent density	g/cm³	0.91
Tensile Strength	Mpa	30
Temperature	.C	5 to 100

## > Specifications

Products	Thickness	Size	Color
PP Sheet	1mm-200mm	1*2 Mtr 1.22*2.44 Mtr	White, Black & Desired color
Products	Diameter	Length	Color

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# Acrylonitrile Butadiene Styrene (ABS)

## > Features

- Can be easily thermo or pressure formed, sheared, sawed, drilled, cold stamped
- Weldability ultrasonic / thermo / chemically
- Excellent impact resistant
- High strength & durability
- Good machinability
- Good electrical properties
- High mechanical Strength

## > Application

- Suitcase Body
- Bus Body Building
- Storage cases
- Sanitary Ware
- Product holders & Containers
- Point-of-purchase displays
- Display components
- Models and prototypes
- Machine housings, guards, and covers
- Instrument panels
- Thermoformed trays and bins

## > Main technical indicator

Property	Unit	PP
Apparent density	g/cm³	1.0-1.1
Tensile Strength	Мра	48-60
Ultimate elongation	%	≥ 30

## > Specifications

Products	Thickness	Size	Color
ABS Sheet	3mm-100mm	1*2 Mtr	Natural Black
Products	Diameter	Length	Color
liodacts	Diameter	Lengun	Coloi