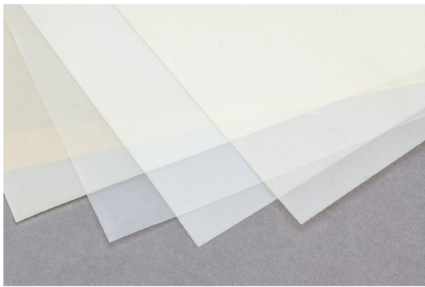




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TPX™

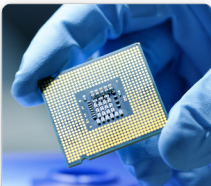


TPX™ Polymethylpentene (PMP) is a unique semi-crystalline thermoplastic known to have the lowest density of any commercial grade polymer available at 0.82 g/cc. Its typical color is a semi-transparent white, however in thinner gauges of sheet and film the material is transparent. TPX offers a unique combination of heat resistance and release characteristics. Because the surface tension of TPX is very low, the product displays excellent release and peeling characteristics. In addition, the extremely low density of TPX offers the potential for significant weight reduction of the final product. Applications include release films, lightweight structural parts, and hollow fibers. PMP is FDA compliant and used in many food and beverage applications.

INDUSTRY



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Natural

ATTRIBUTES

Dielectric Properties	✓
Chemical Resistance	✓
Transparent	✓

SHAPES

Extruded Slab	✓
Extruded Film	✓
Extruded Rod	✓



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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	218 kpsi	1,500 MPa
Flexural Strength - 5%	D790	5.8 kpsi	40 MPa
Izod Impact Resistance - Notched	D256	0.47 ft-lb/in	0.025 kJ/m
Tensile Elongation @ Break	D638	19.00 %	19.00 %
Tensile Modulus	D638	276 kpsi	1,900 MPa
Tensile Strength @ Break	D638	3.6 kpsi	25 MPa
Tensile Strength @ Yield	D638	4.4 kpsi	30 MPa
Thermal			
HDT @ 64 psi	D648	261 °F	127 °C
Physical			
Moisture Absorption	D570	<0.01%	<0.01%
Electrical			
Volume Resistivity	D257	1 x 10 ¹⁵ ohm-cm	1 x 10 ¹⁵ ohm-cm

*Data above is based on testing of injection molded test specimens



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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)	3.5" (88.9mm)
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Rods: 96"L (244cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)					

Extruded Slabs: 24"W (61cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)			

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)
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LAST REVISED: 01/05/2024

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