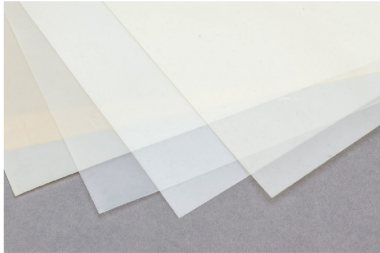




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TPX™

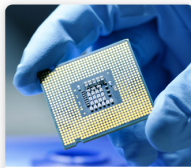


TPX™ Polymethylpentene (PMP) is a unique semi-crystalline thermoplastic known to have the lowest density of any commercial grade polymer available at 0.82 g/cc. Its typical color is a semi-opaque milky white, however in thinner gauges of sheet and film the material is transparent. TPX™ offers a unique 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



ATTRIBUTES



Chemical Resistance



Transparent



Dielectric Properties



SHAPES

Extruded Slab



Compression Sheet



Extruded Film



Extruded Rod





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TECHNICAL SPECIFICATIONS

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	217 kpsi	1,500 MPa
Flexural Strength - 5%	D790	5.8 kpsi	40 MPa
Izod Impact, notched	D256	0.46 ft-lb/in	25 J/m
Tensile Elongation @ Break	D638	19.00 %	19.00 %
Tensile Modulus	D638	275 kpsi	1,900 MPa
Tensile Strength @ Break	D638	3.6 kpsi	25 MPa
Tensile Strength @ Yield	D638	4.3 kpsi	30 MPa
Thermal			
HDT @ 64 psi	D648	261 °F	127 °C
Physical			
Moisture Absorption	D570	<0.01%	<0.01%
Electrical			
Volume Resistivity	D257	309,676 ohm-ft	10,160 ohm-cm



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TPX™

SIZING

Rod Sizing

48" Length

0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1.000" (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)	2.75" (69.85mm)	3" (76.2mm)
3.25" (82.55mm)	3.5" (88.9mm)				

96" Length

0.375" (9.53mm)	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)	2.75" (69.85mm)	3" (76.2mm)
3.25" (82.55mm)	3.5" (88.9mm)				

Slab Sizing

" Length by 24" Width

0.375" (9.53mm)	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)		

Compression Sheet Sizing

48" Length by 24" Width

0.25" (6.35mm)	0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)
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Film Sizing

26" Width

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: 06/06/2022

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