

Typical Properties of TPX [®] PolyMethylPentene		
ASTM or UL test	Property	TPX
PHYSICAL		
D792	Density (lb/in ³) (g/cm ³)	0.030 0.83
D570	Water Absorption, 24 hrs (%)	0.01
MECHANICAL		
D638	Tensile Strength (psi)	4,100
D638	Tensile Modulus (psi)	280,000
D638	Tensile Elongation at Break (%)	10
D790	Flexural Strength (psi)	6,100
D790	Flexural Modulus (psi)	210,000
D695	Compressive Strength (psi)	-
D695	Compressive Modulus (psi)	-
D785	Hardness, Shore D	D85
D256	IZOD Notched Impact (ft-lb/in)	1
THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in.- °F)	6.5
D648	Heat Deflection Temp (°F / °C) at 264 psi	212 / 100
D3418	Melting Temp (°F / °C)	464 / 240
-	Max Operating Temp (°F / °C)	- / -
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	1.16 4.0
UL94	Flammability Rating	HB
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	20
D150	Dielectric Constant at 1 KHz	2.12
D150	Dissipation Factor at 1 MHz	0.000025
D257	Volume Resistivity (ohm-cm)at 50% RH	> 10 ¹⁶

All values at 73°F (23°C) unless otherwise noted.

Note: The information contained herein are typical values intended for reference and comparison purposes only. This data should not be used as the sole basis for design specifications or quality control.