

PMP TPX®

TPX® is a Registered Trademark of Westlake Plastics Co.

TPX has a remarkable and unique combination of transparency and resistance to heat and chemicals. It also has unique acoustical properties.



Property	Units	Test Standard	Result
Mechanical			
Tensile Strength @yield	psi	ASTM D882	4,110
Tensile Elongation @break	%	ASTM D882	10
Tensile Modulus	psi	ASTM D882	280,000
Flexural Modulus	psi	ASTM D790	210,000
Tear Strength - prop.	g/mil	ASTM D1004	125
Thermal			
Continuous Use Temperature—UL	°F	—	212
Heat Deflection Temperature @66 psi	°F	ASTM D648	212
Melt Temperature—DSC	°F	—	455
Glass Transition Temperature	°F	ASTM D3418	—
Flammability			
UL Rating—UL94	—	—	HB
LOI	%	ASTM D2863	<25
NBS Smoke	Dmax	ASTM E662	—
Electrical			
Surface Resistivity	Ohms	ASTM D257	>10 ¹⁶
Dielectric Strength @.003"	V/mil	ASTM D149	3,710
Dielectric Constant	1 KHz	ASTM D150	2.12
Dissipation Factor	1 KHz	ASTM D150	0.000025
Other			
Specific Gravity	—	ASTM D792	0.835
Water Absorption @24 hours	%	ASTM D570	0.01
Refractive Index	—	—	1.463
Haze	%	ASTM D1003	2
Area Factor	in ² /lb/mil	—	32,725

Applications Include:

- Speaker cones
- Gas separating membranes
- Release films
- Carrier films for ceramic slurry
- Antennas
- Medical instrument cover
- Ultrasonic imaging equipment
- Semiconductor Wet/Dry Processing and CMP components
- Metal Replacement / Weight Reduction

Manufacturing Capabilities:



Colors:

Black

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

Also Available at Westlake :

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