



## TPX DX845 (polymethylpentene) Data

	<u>Units</u>	<u>ASTM Test</u>	<u>Result</u>
<b><u>Mechanical</u></b>			
<u>Tensile Strength @yield</u>	<u>psi</u>	D882	4,110
<u>Elongation @break</u>	<u>%</u>	D882	10
<u>Tensile Modulus</u>	<u>psi</u>	D882	<u>280,000</u>
<u>Flexural Modulus</u>	<u>psi</u>	D790	210,000
<u>Tear Strength -</u>			
<u>prop.</u>	<u>g/mil</u>	D1004	125
<b><u>Thermal</u></b>			
<u>Continuous Use Temp.-UL</u>	<u>°F</u>	-	<u>212</u>
<u>Heat Deflection Temperature</u>			
<u>@66 psi</u>	<u>°F</u>	D648	<u>212</u>
<u>Melt Temp.-DSC</u>	<u>°F</u>	-	455
<u>Glass Transition Temp.</u>	<u>°F</u>	D3418	-
<u>Flammability</u>			
<u>UL Rating-UL94</u>	-	-	HB
<u>L.O.I.</u>	<u>%</u>	D2863	<25
<u>NBS Smoke</u>	<u>Dmax</u>	E662	-
<b><u>Electrical</u></b>			
<u>Surface Resistivity</u>	<u>Ohms</u>	D257	>10 <sup>6</sup>
<u>Dielectric Strength @.003"</u>	<u>V/mil</u>	D149	3,710
<u>Dielectric Constant</u>	<u>1 KHz</u>	D150	2.12
<u>Dissipation Factor</u>	<u>1 MHz</u>	D150	25
<b><u>Other</u></b>			
<u>Specific Gravity</u>	-	D792	0.835
<u>Water Absorption</u>	<u>%/24 hr.</u>	D570	0.01
<u>Refractive Index</u>	-	-	1.463
<u>Haze</u>	<u>%</u>	D1003	2
<u>Area Factor</u>	<u>in<sup>2</sup>/lb/mil</u>	-	32,725