



# Pyramid™ PI010

Aromatic Polyimide, Unfilled

<b>General</b>	<b>ASTM No.</b>	<b>US Value</b>	<b>SI Unit</b>
<b>Form</b>	---	Yellow Powder	
<b>Specific Gravity</b>	D792	1.42	
<b>Water Absorption (24hr. @ 23 °C, %)</b>	D570	0.2%	
<b>Mechanical</b>			
<b>Tensile Strength</b>	D638	12.5 Kpsi	86.0 MPa
<b>Tensile Elongation (Break), %</b>	D638	7%	
<b>Flexural Strength</b>	D790	16.0 Kpsi	110 MPa
<b>Flexural Modulus</b>	D790	0.45 Mpsi	3.1 GPa
<b>Izod, notched, ft-lb/in @ 1/8"</b>	D256	81	43 J/cm
<b>Hardness, Rockwell M</b>	D785/D2240	57	
<b>Thermal</b>			
<b>CLTE, linear <math>\mu\text{in}/\text{in} - ^\circ\text{F} (&lt;T_g)</math></b>	D696	30	54 $\mu\text{m}/\text{m} - ^\circ\text{C}$
<b>HDT@ 264 psi, <math>^\circ\text{F}</math></b>	D648	716 $^\circ\text{F}$	380 $^\circ\text{C}$
<b>Flammability Rating</b>	UL-94	V-0	
<b>Electrical</b>			
<b>Dielectric Strength</b>	D149	22 V/mil	
<b>Dissipation Factor @ 1 MHz</b>	150	0.002	
<b>Surface Resistivity, <math>10^{16}</math> ohm</b>	D257	1	
<b>Volume Resistivity, ohm-m</b>	D257	$10^{14}$	
<b>Other</b>			
<b>Dynamic Coefficient of Friction</b>	D1894	0.29	

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