

Data Sheet

PYROPEL® HD  
 High-Purity Thermoset Polyimide

PROPERTY	Temp. °F	ASTM	UNITS	VALUE
<b>Mechanical</b> Tensile Strength	73	D-638	psi	10,000
	500			5,970
Elongation	73	D-638	%	2
	500			3.8
Flexural Strength	73	D-790	psi	13,000
	500			7,890
Flexural Modulus	73	D-790	psi	550,000
	500			303,000
Compressive Stress 1% Strain 10% Strain	73	D-695	psi	3,900
				31,000
Compressive Modulus	73	D-695	psi	540,000
Impact Strength, Notched Izod	73	D-256	ft-lb/in	0.8
<b>Thermal</b> Coefficient of Linear Expansion	212	D-696	10 <sup>-6</sup> in/in/°F	23
Continuous Use Temperature				550°F
Thermal Conductivity	400	C-177		2.09
Deformation under load @ 2000 psi	500	D-621	%	0.59
Deflection temperature @ 264 psi		D-648	°F	610
<b>Electrical</b> Dielectric Constant @ 50 Hz	73	D-150		3.59
Dielectric Strength	73	D-150	Volts/mil	412
Volume Resistivity	73	D257	ohm-cm	1.0 x 10 <sup>18</sup>
Surface Resistivity	73	D-257	ohms	1 x 10 <sup>17</sup>
<b>Other Properties</b> Water Absorption	122	D-570	% @ 24 hrs.	0.20
			% @ 48 hrs.	0.58
Specific Gravity		D-792		1.35
Flammability Rating		UL94		94V-0

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