

# PYROPEL HD

High-Purity Thermoset Polyimide

## TECHNICAL DATA SHEET

Rev.00 - 05/10/2010

Mechanical	73	D-638	psi	10000
Tensile Strength	500			5970
Elongation	73	D-638	%	2
	500			3.8
Flexural Strength	73	D790	psi	13000
	500			7890
Flexural Modulus	73	D790	psi	550000
	500			303000
Compressive Stress	73	D-695	psi	
1% Strain				3900
10% Strain				31000
Compressive Modulus	73	D-695	psi	540000
Impact Strength, Notched Izod	73	D-256	ft-lb/in	0.8
Thermal	212	D696	10-6in/in/0F	23
Coefficient of Linear Expansion				
Continuous Use Temperature				5500F
Thermal Conductivity	400	C-177		2.09
Deformation under load @2000 psi	500	D-621	%	0.59
Deflection temperature @ 264 psi		D-648	0 F	610
Electrical	73	D-150		3.59
Dielectric Constant @ 50 Hz				
Dielectric Strength	73	D-150	Volts/mil	412
Volume Resistivity	73	D-257	ohm-cm	1.0x10 <sup>18</sup>
Surface Resistivity	73	D-257	ohms	1x10 <sup>17</sup>
Other Properties	122	D-570	% @ 24 hrs.	0.2
Water Absorption			% @ 48 hrs.	0.58
Specific Gravity		D-792		1.35
Flammability Rating		UL94		94V-0

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