

Polyamide-imide - PAI

PROPERTY	Temp. 0F	ASTM	UNITS	VALUE
Mechanical				
Tensile Strength	73	D-638	psi	20000
	450			12500
Tensile Modulus of Elasticity	73	D-638	psi	459000
	450			322000
Elongation	73	D-638	%	0.057
	450			0.122
Flexural Strength	73	D-790	psi	21160
Flexural Modulus	73	D-790	psi	595000
Hardness, Shore D Scale	73	D-785	-	D90
Impact Strength, Notched Izod	73	D256	ft-lb/in	1.4
Thermal				
Coefficient of Linear Expansion	212	D-696	10-5in/in/0F	2.4
Tg-Glass Transition			0F	6300F
Deflection Temperature @ 264 psi		D-648	0F	5750F
Continuous Use Temperature			0F	5000F
Electrical				
Surface Resistivity		D-257	ohms/sq.	9x10 ¹⁵
Volume Resistivity		D-257	ohm-cm	3x10 ¹⁶
Dielectric Constant, 106 Hz		D-150	-	4.16
Dissipation Factor, 106 Hz		D-150	-	0.0199
Other				
Water Absorption, 24 hrs	73	D-570	%	0.3
Specific Gravity		D-792		1.34

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