

Generic PAI

Polyamide-imide

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PAI
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40 to 1.46	g/cm ³	ASTM D792
Water Absorption (23°C, 24 hr)	0.30 to 0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	69 to 120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3810 to 6930	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.80 to 15	%	ASTM D638
Flexural Modulus (23°C)	4140 to 6980	MPa	ASTM D790
Flexural Strength (23°C)	238 to 241	MPa	ASTM D790
Compressive Modulus	2410 to 4100	MPa	ASTM D695
Compressive Strength (23°C)	163 to 222	MPa	ASTM D695
Coefficient of Friction	0.030 to 0.35		ASTM D1894
Wear Factor	1.4 to 2000	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	42 to 150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	278 to 279	°C	ASTM D648
Thermal Conductivity (23°C)	0.26 to 0.55	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+6 to 5.0E+18	ohms	ASTM D257
Dielectric Constant (23°C)	3.90 to 6.00		ASTM D150
Dissipation Factor (23°C)	8.7E-3 to 0.032		ASTM D150

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