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抗靜電 PEI(ESD420)性能表

Polyetherimide

ULTEM-1000/聚醚亞醯胺

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.750 %	0.750 %	50% RH

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	115	115	ISO 2039-2
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ISO 527
Elongation at Break	2.00 %	2.00 %	ISO 527
Tensile Modulus	6.40 GPa	928 ksi	ISO 527
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	IEC 93
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	Ohm; IEC 93

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C @Temperature 23.0 - 150 °C	19.4 µin/in-°F @Temperature 73.4 - 302 °F	average
	35.0 µm/m-°C @Temperature 23.0 - 100 °C	19.4 µin/in-°F @Temperature 73.4 - 212 °F	average
Maximum Service Temperature, Air	170 °C	338 °F	20,000 hours continuous
	200 °C	392 °F	for short periods
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75 method A
Flammability, UL94	V-0	V-0	3 mm
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	47.0 %	47.0 %	ISO 4589

Descriptive Properties	
Color	black

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