Ultron® 150G4

Polyether Imide

Asia International Enterprise (Hong Kong) Limited

Message:

Polyetherimide (Abbr. PEI) is a high performance amorphous engineering polymer offers excellent thermal resistance, broad chemical resistance, inherent flame retardant properties, very good dimensional stability, high strength and stiffness, excellent abrasion resistance, good wave transmittance, outstanding electrical properties. PEI well balances mechanical properties and processability, offering flexibility and efficiency in applications of electronic and electrical industries, mechanical and chemical industries, automotives, aerospace. PEI also used to replace metal parts for traditional and household products.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Amorphous Flame Retardant Good Abrasion Resistance Good Chemical Resistance Good Dimensional Stability Good Electrical Properties Good Flexibility Good Processability High Heat Resistance High Stiffness High Strength		
Uses	Aerospace Applications Automotive Applications Electrical/Electronic Applications Household Goods Metal Replacement		
Agency Ratings	EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.41	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.30	%	
Water Absorption (Saturation, 23°C)	0.21	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**

Rockwell Hardness (M-Scale)	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	130	MPa	ISO 527-2/1270
Tensile Strain (Break)	3.5	%	ISO 527-2/50
Flexural Modulus [1]	7000	MPa	ISO 178
Flexural Stress [2]	225	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m^2	ISO 180
Unnotched Izod Impact Strength	50	kJ/m^2	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	3.5E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.25	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	27	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	1.5E-3		IEC 60250
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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