Ultron® 150

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			
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	1.27	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.50	%	
Water Absorption (Saturation, 23°C)	0.25	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	110		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	110	MPa	ISO 527-2/1270
Tensile Strain (Break)	> 80	%	ISO 527-2/50
Flexural Modulus [1]	3500	MPa	ISO 178
Flexural Stress [2]	165	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	7.0	kJ/m^2	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	201	°C	ISO 75-2/A
Vicat Softening Temperature	218	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	5.5E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.22	W/m/K	ISO 8302
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	28	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.10		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		

Recommended distributors for this material

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