Ultron® 150C6-WR

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	Carbon Fiber,30% Filler by Weight
Additive	PTFE Lubricant
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 Lubricated
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	1.45	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.20	%	
Flow	0.10	%	

Water Absorption (Saturation, 23°C)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	123		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	190	MPa	ISO 527-2/1270
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Flexural Modulus [1]	16500	MPa	ISO 178
Flexural Stress [2]	290	MPa	ISO 178
Coefficient of Friction	0.15		ISO 8295
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m^2	ISO 180
Unnotched Izod Impact Strength	48	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	221	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	3.0E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.55	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+4	ohms·cm	IEC 60093
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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