

# Ultron® 150G6

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,30% 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		
Uses	High Strength		
	Aerospace Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
Agency Ratings	Metal Replacement		
	EU Food Contact, Unspecified Rating		
Forms	FDA Food Contact, Unspecified Rating		
	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	0.16	%	ISO 62
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (M-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	170	MPa	ISO 527-2/1270
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>	9500	MPa	ISO 178
Flexural Stress <sup>2</sup>	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	12	kJ/m <sup>2</sup>	ISO 180
Unnotched Izod Impact Strength	45	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Vicat Softening Temperature	227	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	2.2E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.26	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	29	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.90		IEC 60250
Dissipation Factor (1 MHz)	1.5E-3		IEC 60250
Comparative Tracking Index	200	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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