

Ratron® 250

Polyethersulfone

Asia International Enterprise (Hong Kong) Limited

Message:

Polyethersulfone (PES) is a amorphous high heat resistance engineering polymer. It is transparency, outstanding hydrolysis resistance, inherent flame retardancy, excellent resistance to a broad range of chemicals and low smoke, can withstand high temperatures under load, and provides stable performances under extreme temperature changes. This overall outstanding performance material can be used in electronic/electrical, food and tableware, military, automotive, aerospace, and medical fields.

General Information			
Features	Amorphous		
	Flame Retardant		
	Good Chemical Resistance		
	High Clarity		
	High Heat Resistance		
	Hydrolysis Resistant		
	Low Smoke Emission		
Uses	Aerospace Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
	Medical/Healthcare Applications		
	Military Applications		
	Non-specific Food Applications		
Agency Ratings	EU Food Contact, Unspecified Rating		
	FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.60	%	
Water Absorption (Saturation, 23°C)	0.80	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	88		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	90.0	MPa	ISO 527-2/1270
Tensile Strain (Break)	> 40	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178

Flexural Stress ²	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	8.0	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)	210	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	4.9E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.27	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	16	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80		IEC 60250
Dissipation Factor (1 MHz)	0.015		IEC 60250
Comparative Tracking Index	125	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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