Ratron® 250G6

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			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
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	1.62	g/cm^3	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	0.30	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	123		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	145	MPa	ISO 527-2/1270
Tensile Strain (Break)	2.5	%	ISO 527-2/50

Flexural Modulus [1]	8300	MPa	ISO 178
Flexural Stress [2]	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m²	ISO 180
Unnotched Izod Impact Strength	42	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	°C	ISO 75-2/A
Vicat Softening Temperature	225	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	2.7E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.32	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	14	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	4.20		IEC 60250
Dissipation Factor (1 MHz)	7.0E-3		IEC 60250
Comparative Tracking Index	150	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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