Ratron® 250G6-WR

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			
Additive	Lubricant			
Features	Amorphous			
	Flame Retardant			
	Good Chemical Resistance			
	High Clarity			
	High Heat Resistance			
	Hydrolysis Resistant			
	Low Smoke Emission			
	Lubricated			
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	1.71	g/cm³	ISO 1183	
Molding Shrinkage			ISO 294-4	
Across Flow	0.40	%		
Flow	0.20	%		
Water Absorption (Saturation, 23°C)	0.20	%	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)	110	MPa	ISO 527-2/1270
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus ¹	8200	MPa	ISO 178
Flexural Stress ²	175	MPa	ISO 178
Coefficient of Friction	0.18		ISO 8295
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.3	kJ/m²	ISO 180
Unnotched Izod Impact Strength	52	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Vicat Softening Temperature	221	°C	ISO 306/B50
CLTE - Flow (-20 to 150°C)	2.8E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.31	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	15	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		

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