

Sultron® R40HF

Polyphenylene Sulfide

Asia International Enterprise (Hong Kong) Limited

Message:

Polyphenylene Sulfide (Abbr. PPS) is a high performance thermoplastic polymer, offers excellent heat resistance, abrasion and radiation resistances, flame retardant, average mechanical properties, excellent dimensional stability and electrical properties. With all these outstanding properties, PPS compounded materials have already replace some of the metals as structural materials, and widely used in electronic and electrical, automotive, mechanical and chemical, aerospace, and military fields.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Flow		
	High Heat Resistance		
	Radiation (Gamma) Resistant		
Uses	Aerospace Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
	Metal Replacement		
	Military Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.30	%	
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	170	MPa	ISO 527-2/1270
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Flexural Modulus ¹	14200	MPa	ISO 178
Flexural Stress ²	215	MPa	ISO 178
Coefficient of Friction	0.35		ISO 8295
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	12	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	37	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 260	°C	ISO 75-2/A
CLTE - Flow (-20 to 150°C)	1.6E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.33	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (in Oil)	19	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	4.00		IEC 60250
Dissipation Factor (1 MHz)	3.0E-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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