Sultron® R40-WH

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 Heat Resistance Radiation (Gamma) Resistant		
Uses	Aerospace Applications Automotive Applications Electrical/Electronic Applications Metal Replacement Military Applications		
Appearance	White		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.65	g/cm³	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)	180	MPa	ISO 527-2/1270
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus [1]	14000	MPa	ISO 178
Flexural Stress [2]	230	MPa	ISO 178
Coefficient of Friction	0.35		ISO 8295
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	12	kJ/m²	ISO 180
Unnotched Izod Impact Strength	40	kJ/m²	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)	1.8E-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)	20	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		

Recommended distributors for this material

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