Sultron® 70C6-WR

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	Carbon Fiber,30% Filler by Weight				
Additive	Lubricant				
Features	Flame Retardant				
	Good Abrasion Resistance				
	Good Dimensional Stability				
	Good Electrical Properties				
	High Heat Resistance				
	Lubricated				
	Radiation (Gamma) Resistant				
Uses	Aerospace Applications				
	Automotive Applications				
	Electrical/Electronic Applications				
	Metal Replacement				
	Military Applications				
Appearance	White				
Forms	Pellets	Pellets			
Physical	Nominal Value	Unit	Test Method		
Density	1.58	g/cm³	ISO 1183		
Molding Shrinkage			ISO 294-4		
Across Flow	0.30	%			
Flow	0.20	%			
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Stress (Yield)	165	МРа	ISO 527-2/1270		
Tensile Strain (Break)	1.1	%	ISO 527-2/50		
Flexural Modulus ¹	18000	МРа	ISO 178		
Flexural Stress ²	240	МРа	ISO 178		
Coefficient of Friction	0.18		ISO 8295		
Impact	Nominal Value	Unit	Test Method		

Notched Izod Impact Strength	10	kJ/m²	ISO 180
Unnotched Izod Impact Strength	32	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa,			
Unannealed)	> 265	°C	ISO 75-2/A
CLTE - Flow (-20 to 150°C)	1.4E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.75	W/m/K	ISO 8302
Thermal Conductivity Electrical	0.75 Nominal Value	W/m/K Unit	Test Method
Thermal Conductivity Electrical Volume Resistivity	0.75 Nominal Value < 1.0E+3	W/m/K Unit ohms·cm	Test Method IEC 60093
Thermal Conductivity Electrical Volume Resistivity Flammability	0.75 Nominal Value < 1.0E+3 Nominal Value	W/m/K Unit ohms·cm Unit	Test Method IEC 60093 Test Method
Thermal Conductivity Electrical Volume Resistivity Flammability Flame Rating (1.60 mm)	0.75 Nominal Value < 1.0E+3 Nominal Value V-0	W/m/K Unit ohms·cm Unit	Test Method IEC 60093 Test Method UL 94
Thermal Conductivity Electrical Volume Resistivity Flammability Flame Rating (1.60 mm) NOTE	0.75 Nominal Value < 1.0E+3 Nominal Value V-0	W/m/K Unit ohms·cm Unit	ISO 8302 Test Method IEC 60093 Test Method UL 94
Thermal Conductivity Electrical Volume Resistivity Flammability Flame Rating (1.60 mm) NOTE 1.	0.75 Nominal Value < 1.0E+3 Nominal Value V-0 2.0 mm/min	W/m/K Unit ohms·cm Unit	ISO 8302 Test Method IEC 60093 Test Method UL 94

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

