Sultron® 79G8ST

Polyphenylene Sulfide + PPE

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	Automotive Applications		
	Electrical/Electronic Applications			
	Metal Replacement			
	Military Applications			
Forms	Pellets			
Physical	Nominal Value	Unit	Test Method	
Physical Density	Nominal Value 1.60	Unit g/cm ³	Test Method ISO 1183	
Density			ISO 1183	
Density Molding Shrinkage	1.60	g/cm³	ISO 1183	
Density Molding Shrinkage Across Flow	1.60 0.60	g/cm³ %	ISO 1183	
Density Molding Shrinkage Across Flow Flow	1.60 0.60 0.30	g/cm ³ % %	ISO 1183 ISO 294-4	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C)	1.60 0.60 0.30 0.030	g/cm ³ % % %	ISO 1183 ISO 294-4 ISO 62	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical	1.60 0.60 0.30 0.030 Nominal Value	g/cm ³ % % % Unit	ISO 1183 ISO 294-4 ISO 62 Test Method	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield)	1.60 0.60 0.30 0.030 Nominal Value 165	g/cm ³ % % % Unit MPa	ISO 1183 ISO 294-4 ISO 62 Test Method ISO 527-2/1270	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break)	1.60 0.60 0.30 0.030 Nominal Value 165 2.5	g/cm³ % % % Unit MPa %	ISO 1183 ISO 294-4 ISO 62 Test Method ISO 527-2/1270 ISO 527-2/50	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break) Flexural Modulus ¹	1.60 0.60 0.30 0.030 Nominal Value 165 2.5 13000	g/cm ³ % % Unit MPa % MPa	ISO 1183 ISO 294-4 ISO 62 Test Method ISO 527-2/1270 ISO 527-2/50 ISO 178	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break) Flexural Modulus ¹ Flexural Stress ²	1.60 0.60 0.30 0.030 Nominal Value 165 2.5 13000 245	g/cm ³ % % Unit MPa % MPa	ISO 1183 ISO 294-4 ISO 62 ISO 62 ISO 527-2/1270 ISO 527-2/50 ISO 178 ISO 178	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break) Flexural Modulus ¹ Flexural Stress ² Coefficient of Friction	1.60 0.60 0.30 0.030 Nominal Value 165 2.5 13000 245 0.36	g/cm ³ % % % Unit MPa % MPa MPa	ISO 1183 ISO 294-4 ISO 62 ISO 62 ISO 527-2/1270 ISO 527-2/50 ISO 178 ISO 178 ISO 8295	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break) Flexural Modulus ¹ Flexural Stress ² Coefficient of Friction	1.60 0.60 0.30 0.030 Nominal Value 165 2.5 13000 245 0.36 Nominal Value	g/cm ³ % % Unit MPa % MPa MPa Unit Unit	ISO 1183 ISO 294-4 ISO 294-4 ISO 62 ISO 62 ISO 527-2/1270 ISO 527-2/50 ISO 178 ISO 178 ISO 178 ISO 8295 Test Method	
Density Molding Shrinkage Across Flow Flow Water Absorption (Saturation, 23°C) Mechanical Tensile Stress (Yield) Tensile Strain (Break) Flexural Modulus ¹ Flexural Modulus ¹ Coefficient of Friction Impact Notched Izod Impact Strength	1.60 0.60 0.30 0.030 Nominal Value 165 2.5 13000 245 0.36 Nominal Value 12	g/cm ³ % % % Unit MPa % MPa MPa Unit Unit Unit Unit	ISO 1183 ISO 294-4 ISO 294-4 ISO 62 Test Method ISO 527-2/1270 ISO 527-2/50 ISO 178 ISO 178 ISO 178 ISO 8295 Test Method ISO 180	

Heat Deflection Temperature (1.8 MPa,			
Unannealed)	> 265	°C	ISO 75-2/A
CLTE - Flow (-20 to 150°C)	2.0E-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)	16	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.00		IEC 60250
Dissipation Factor (1 MHz)	2.0E-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		

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

