

Sunny® PPS 1150

Polyphenylene Sulfide

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

Polyphenylene sulfide

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.75	g/cm ³	ASTM D792
23°C	1.75	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.40 to 0.60	%	ASTM D955
23°C	0.40 to 0.60	%	ISO 294-4
Water Absorption			
Equilibrium, 23°C	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-- ²	145	MPa	ASTM D638
--	145	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.1	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	14500	MPa	ASTM D790
50.0 mm Span	15000	MPa	ISO 178
Flexural Strength			
50.0 mm Span	209	MPa	ASTM D790
-- ⁴	215	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	265	°C	ASTM D648, ISO 75-2/Af

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.60 mm	V-0	
3.20 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	120 to 150	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	290	°C
Middle Temperature	315	°C
Front Temperature	330	°C
Processing (Melt) Temp	310	°C
Mold Temperature	140	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	23°C	
2.	5.0 mm/min	
3.	5.0 mm/min	
4.	50 mm span	

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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

