

Sunny® PPS 1140

Polyphenylene Sulfide

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

Polyphenylene sulfide

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.66	g/cm ³	ASTM D792
23°C	1.66	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.30 to 0.70	%	ASTM D955
23°C	0.30 to 0.70	%	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	165	MPa	ASTM D638
--	165	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.3	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	13600	MPa	ASTM D790
50.0 mm Span	14000	MPa	ISO 178
Flexural Strength			
50.0 mm Span	213	MPa	ASTM D790
-- ⁴	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	263	°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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