

Sunny® PPS 1155

Polyphenylene Sulfide

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

Polyphenylene sulfide

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
	Mineral,10% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.83	g/cm ³	ASTM D792
23°C	1.83	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.30 to 0.50	%	ASTM D955
23°C	0.30 to 0.50	%	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	125	MPa	ASTM D638
--	125	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.0	%	ASTM D638
Break	1.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	15500	MPa	ASTM D790
50.0 mm Span	16000	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	74	J/m	ASTM D256
23°C	7.0	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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