

Sunny® PPS 1165

Polyphenylene Sulfide

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

Polyphenylene sulfide

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
	Mineral,15% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.93	g/cm ³	ASTM D792
23°C	1.93	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.20 to 0.40	%	ASTM D955
23°C	0.20 to 0.40	%	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	116	MPa	ASTM D638
--	116	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	17400	MPa	ASTM D790
50.0 mm Span	18000	MPa	ISO 178
Flexural Strength			
50.0 mm Span	185	MPa	ASTM D790
-- ⁴	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C	6.0	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		

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

