

Sunny® PA66 EN130

Polyamide 66

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP reinforced Polyamide 66

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.37	g/cm ³	ASTM D792
23°C	1.37	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	1.0	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-- ²	160	MPa	ASTM D638
--	160	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.8	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	9210	MPa	ASTM D790
50.0 mm Span	9500	MPa	ISO 178
Flexural Strength			
50.0 mm Span	203	MPa	ASTM D790
-- ⁴	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	190	J/m	ASTM D256
23°C	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	230	°C	ASTM D648, ISO 75-2/Af

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.60 mm	HB	
3.20 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	110 to 120	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	270	°C
Middle Temperature	260	°C
Front Temperature	255	°C
Processing (Melt) Temp	265	°C
Mold Temperature	80.0	°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

