

Sunny® PBT EN115

Polybutylene Terephthalate

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP reinforced polybutylene terephthalate

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.35	g/cm ³	ASTM D792
23°C	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	20	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 23°C	1.0 to 1.4	%	ASTM D955
23°C	1.0 to 1.4	%	ISO 294-4
Water Absorption			
Equilibrium, 23°C	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-- ²	46.0	MPa	ASTM D638
--	46.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	19	%	ASTM D638
Break	20	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	1940	MPa	ASTM D790
-- ⁴	2000	MPa	ISO 178
Flexural Strength			
50.0 mm Span	58.0	MPa	ASTM D790
-- ⁵	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ⁶	8.0	kJ/m ²	ISO 180/1A
Flammability	Nominal Value	Test Method	

Flame Rating		UL 94
1.60 mm	HB	
3.20 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	105 to 115	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	240	°C
Middle Temperature	235	°C
Front Temperature	220	°C
Processing (Melt) Temp	240	°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.	2.0 mm/min	
5.	2.0 mm/min	
6.	3.2mm	

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