

Sunny® PBT EN230

Polybutylene Terephthalate

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP flame retardant reinforced polybutylene terephthalate

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.60	g/cm ³	ASTM D792
23°C	1.61	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 23°C	0.40 to 0.70	%	ASTM D955
23°C	0.30 to 0.60	%	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	95.0	MPa	ASTM D638
--	120	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	4850	MPa	ASTM D790
-- ⁴	9800	MPa	ISO 178
Flexural Strength			
50.0 mm Span	130	MPa	ASTM D790
-- ⁵	186	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	77	J/m	ASTM D256
23°C ⁶	7.2	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	185	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	205	°C	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	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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