

Sunny® PBT EN225

Polybutylene Terephthalate

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP flame retardant reinforced polybutylene terephthalate

General Information			
Filler / Reinforcement	Glass Fiber,22% 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	1.60	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	0.40 to 0.70	%	ASTM D955
23°C	0.40 to 0.70	%	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
--	95.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	4850	MPa	ASTM D790
-- ⁴	5000	MPa	ISO 178
Flexural Strength			
50.0 mm Span	130	MPa	ASTM D790
-- ⁵	135	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, ISO 75-2/Af
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Ignition Temperature (2.00 mm)	750	°C	
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		

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



WECHAT