

Shinite® PBT D202G30

Polybutylene Terephthalate
Shinkong Synthetic Fiber Corp.

Message:

Shinite® PBT D202G30 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in North America.
Important attributes of Shinite® PBT D202G30 are:
Flame Rated
Flame Retardant

General Information			
UL YellowCard	E107536-218546	E107536-101310228	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good Electrical Properties		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 1.3	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9380	MPa	ASTM D638
Tensile Strength	137	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	196	MPa	ASTM D790
Compressive Strength	168	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	208	°C	ASTM D648
Melting Temperature	222	°C	DSC
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant	2.90		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	25	%
Rear Temperature	232 to 260	°C
Middle Temperature	232 to 260	°C
Front Temperature	232 to 260	°C
Processing (Melt) Temp	241 to 260	°C
Mold Temperature	60.0 to 121	°C

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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



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