

Shinite® PBT D202

Polybutylene Terephthalate
Shinkong Synthetic Fiber Corp.

Message:

Shinite® PBT D202 is a Polybutylene Terephthalate (PBT) material. It is available in North America.
Important attributes of Shinite® PBT D202 are:
Flame Rated
Chemical Resistant
Flame Retardant

General Information			
UL YellowCard	E107536-218539		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Electrical Properties		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0 to 2.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3310	MPa	ASTM D638
Tensile Strength	61.4	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	93.8	MPa	ASTM D790
Compressive Strength	100	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Melting Temperature	224	°C	DSC
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant	3.00		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

