

Shinite® PBT D201

Polybutylene Terephthalate
Shinkong Synthetic Fiber Corp.

Message:

Shinite® PBT D201 is a Polybutylene Terephthalate (PBT) material. It is available in North America.
Important attributes of Shinite® PBT D201 are:
Flame Rated
Chemical Resistant
Heat Resistant
Typical application of Shinite® PBT D201: Food Contact Applications

General Information			
UL YellowCard	E107536-218536	E107536-524654	
Features	General Purpose		
	Good Chemical Resistance		
	Good Electrical Properties		
	Medium Heat Resistance		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0 to 2.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength	53.1	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	83.4	MPa	ASTM D790
Compressive Strength	88.9	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	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	226	°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	18	kV/mm	ASTM D149
Dielectric Constant	3.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		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

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