

Shinite® PBT D201

Polybutylene Terephthalate

Shinkong Synthetic Fiber Corp.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

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

Material Status	• Commercial: Active
UL Yellow Card ¹	• E107536-218536 • E107536-524654
Search for UL Yellow Card	• Shinkong Synthetic Fiber Corp.
Availability	• North America
Features	• Chemical Resistant • General Purpose • Good Electrical Properties • Medium Heat Resistance
Agency Ratings	• FDA Unspecified Rating
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.31 g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0 to 2.2 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.10 %	ASTM D570

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

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	118	ASTM D785

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 to 121 °C

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.



Where to Buy

Supplier

Shinkong Synthetic Fiber Corp.
Taipei, R.O.C., Taiwan
Telephone: +886-2-2507-1251
Web: <http://www.shinkong.com.tw/>

Distributor

Calsak Polymers
Telephone: 800-743-2595
Web: <http://www.calsak.com/>
Availability: North America

