

BASF Ultradur B 6550 L PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Ultradur B 6550 L is a high viscosity PBT extrusion grade. Applications; Used for loose buffer tubes for optical fibers, semi-finished products fro machining, profiles and pipes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-6550-L-PBT.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	DIN 53495/1L
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23°C/50% R.H.
Viscosity Test	160 cm ³ /g	160 cm ³ /g	Viscosity number
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	Sheet
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	Sheet
Melt Flow	11.7 g/10 min @Load 2.16 kg, Temperature 250 °C	11.7 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	50mm/min; ISO 527
Elongation at Break	>= 100 %	>= 100 %	50mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50mm/min; ISO 527
Modulus of Elasticity	2.50 GPa	363 ksi	ISO 527-2
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	9.70 - 13.0 µm/m-°C @Temperature 23.0 - 80.0 °C	5.39 - 7.22 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	220 - 225 °C	428 - 437 °F	

Thermal Properties	Metric	English	Comments
Thermal Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-2
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 5.00e+13 ohm	>= 5.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	31.0 kV/mm	787 kV/in	IEC 243/1
Dissipation Factor	0.0013	0.0013	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0221	0.0221	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	375 V	375 V	Test solution B; IEC 60112
	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
	260 °C	500 °F	
Mold Temperature	250 - 275 °C	482 - 527 °F	Injection molding
	40.0 - 80.0 °C	104 - 176 °F	

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Natural Value	Comments
Commercial Status	North America and Europe	
FDA	21 CFR 177.1660	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Extrusion	
Processing	Film Extrusion	
	Injection Molding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Special characteristic	Heat stabilized or stable to heat	
	Light stabilized or stable to light	
	U.V. stabilized or stable to weather	

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