

BASF Ultradur® B 6550 LN PBT

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

Material Notes:

Description: High-viscosity grades for the extrusion of loose buffer tubes for optical fibers, semi-finished products for machining, profiles and pipes. Information provided by BASF

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Saturation; DIN 53495/1L
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23°C; 50% RH
Viscosity Measurement	160	160	[ml/g]; Viscosity number; ISO 1628
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	Sheet; ISO 294
Linear Mold Shrinkage, Transverse	0.022 cm/cm	0.022 in/in	Sheet; ISO 294
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 at Break	56.0 MPa	8120 psi	5 mm/min; ISO 527-2
Tensile Strength, Yield	56.0 MPa	8120 psi	50 mm/min; ISO 527-2
Elongation at Break	>= 3.5 %	>= 3.5 %	50mm/min; ISO 527-2
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527-2
	>= 50 %	>= 50 %	50 mm/min; ISO 527-2
Modulus of Elasticity	2.60 GPa	377 ksi	ISO 527-2
Flexural Strength	76.0 MPa	11000 psi	ISO 178
Charpy Impact Unnotched	22.0 J/cm ² @Temperature -30.0 °C	105 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
	0.600 J/cm ²	2.86 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	9.00 - 15.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 23.0 - 80.0 °C	5.00 - 8.33 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	220 - 225 °C	428 - 437 °F	DSC; ISO 11357-3
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
Decomposition Temperature	>= 290 °C	>= 554 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Diameter 0.400 mm	HB @Diameter 0.0157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+15 ohm-cm	5.00e+15 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 93
Dielectric Constant	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	IEC 250
	3.4 @Frequency 100 Hz	3.4 @Frequency 100 Hz	IEC 250
Dielectric Strength	39.0 kV/mm	991 kV/in	IEC 243/1
Dissipation Factor	0.0019 @Frequency 100 Hz	0.0019 @Frequency 100 Hz	IEC 250
	0.0219 @Frequency 1.00e+6 Hz	0.0219 @Frequency 1.00e+6 Hz	IEC 250
Comparative Tracking Index	475 V	475 V	Test solution A; IEC 112

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	260 °C Metric	500 °F English	for shrinkage test Comments
	250 - 270 °C	482 - 518 °F	Pipe extrusion
	250 - 270 °C	482 - 518 °F	Semi-finished extrusion
	260 - 270 °C	500 - 518 °F	Injection-molding
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	Injection molding
	60.0 °C	140 °F	for shrinkage test

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Europe	
Ignition Temperature	350 °C	ASTM D1929
Primary Processing Technique	Coating and Injection Molding	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China