

BASF Ultradur S 4090 G4 LS High Speed BK15077 20% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-S-4090-G4-LS-High-Speed-BK15077-20-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; ISO 62
Viscosity Test	104 cm ³ /g	104 cm ³ /g	Viscosity number
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.0076 cm/cm	0.0076 in/in	ISO Data
Melt Flow	39 g/10 min @Load 2.16 kg, Temperature 275 °C	39 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	100 MPa	14500 psi	5mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	5mm/min; ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	1mm/min; ISO 527
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
	3.30 J/cm ² @Temperature -30.0 °C	15.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359
Melting Point	223 °C	433 °F	10 K/min
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.019	0.019	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	450 V	450 V	IEC 60112

Descriptive Properties	Value	Comments
Color	BK15077	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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