

BASF Ultradur B 4040 G10 High Speed BK15029 50% Glass Filled PBT/PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

Ultradur B 4040 G10 High Speed BK15029 is a high flow, fast cycling with low warpage, 50% glass filled, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4040-G10-High-Speed-BK15029-50-Glass-Filled-PBTPET.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	ISO 62
Moisture Absorption at Equilibrium	0.12 %	0.12 %	23°C/50% R.H.; ISO 62
Viscosity Test	75 cm ³ /g	75 cm ³ /g	Viscosity number
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO Data
Melt Flow	130 g/10 min @Load 2.16 kg, Temperature 275 °C	130 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	150 MPa	21800 psi	5mm/min; ISO 527
Elongation at Break	1.2 %	1.2 %	5mm/min; ISO 527
Tensile Modulus	18.4 GPa	2670 ksi	1mm/min; ISO 527
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 μm/m-°C	13.9 μin/in-°F	ISO 11359
Melting Point	223 °C	433 °F	10 K/min
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °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+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.5	4.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	4.7	4.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	225 V	225 V	IEC 60112

Descriptive Properties	Value	Comments
Color	BK15029	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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