

BASF Ultradur B 4040 G6 High Speed BK15029 30% 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 G6 High Speed BK15029 is a high flow, fast cycling with low warpage, 30% glass filled, pigmented black, 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-G6-High-Speed-BK15029-30-Glass-Filled-PBTPET.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	DIN 53495/1L
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.
Viscosity Test	80 cm ³ /g	80 cm ³ /g	Viscosity number
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
Linear Mold Shrinkage, Transverse	0.0097 cm/cm	0.0097 in/in	ISO 294
Melt Flow	53.0 g/10 min @Load 2.16 kg, Temperature 275 °C	53.0 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	140 MPa	20300 psi	50mm/min; ISO 527-2
Elongation at Break	2.1 %	2.1 %	50mm/min; ISO 527
Modulus of Elasticity	10.5 GPa	1520 ksi	ISO 527-2
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 - 225 °C	428 - 437 °F	
Maximum Service Temperature, Air	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75

Thermal Properties Flammability UL 94	^{MP} Metric	^{MP} English	Comments
	@Thickness 40.6 mm	@Thickness 1.60 in	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	225 V	225 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 275 °C	482 - 527 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	

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

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