BASF Ultramid® B3G8 BK00564 40% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Ultramid B3G8 BK00564 is a 40% glass filled, pigmented black, injection molding PA6 grade.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-B3G8-BK00564-40-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in³	ISO 1183
Water Absorption	5.4 - 6.0 %	5.4 - 6.0 %	ISO 62
Moisture Absorption at Equilibrium	1.6 - 2.0 %	1.6 - 2.0 %	23°C/50% R.H.; ISO 62
Viscosity Test	140 cm³/g	140 cm³/g	Viscosity number; ISO 307
Melt Flow	78.65 g/10 min @Load 5.00 kg, Temperature 275 °C	78.65 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	205 MPa	29700 psi	50mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	50mm/min; ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m²	7.61 ft-lb/in²	ISO 180/A
	12.0 kJ/m² @Temperature -30.0 °C	5.71 ft-lb/in² @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	9.00 J/cm²	42.8 ft-lb/in²	ISO 179/1eU
	8.50 J/cm² @Temperature -30.0 °C	40.5 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm²	6.66 ft-lb/in²	ISO 179/1eA
	1.10 J/cm² @Temperature -30.0 °C	5.24 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 - 15.0 µm/m-°C @Temperature 23.0 - 80.0 °C	5.56 - 8.33 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	55.0 - 70.0 µm/m-°C @Temperature 23.0 - 80.0 °C	30.6 - 38.9 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
Specific Heat Capacity	1.40 J/g-°C	0.335 BTU/lb-°F	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	200 °C	392 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.014 @Frequency 100 Hz	0.014 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	550 V	550 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK00564	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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