

BASF Ultramid® B3ZG3 BK 30564 15% Glass Filled PA6-1 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Description: Impact-modified and 15% glass fiber reinforced injection-molding grade, for instance, for automotive cable conduits. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3ZG3-BK-30564-15-Glass-Filled-PA6-1-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	7.2 - 7.8 %	7.2 - 7.8 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.1 - 2.7 %	2.1 - 2.7 %	23°C; 50% RH; ISO 62
Viscosity Measurement	160	160	ISO 307
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	restricted
Melt Flow	42.7 g/10 min @Load 5.00 kg, Temperature 275 °C	42.7 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	18 %	18 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	2.90 GPa	421 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	at max force; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	29.0 kJ/m ² @Temperature 23.0 °C	13.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	180 °C	356 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.2 @Frequency 1.00 Hz	6.2 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.20 @Frequency 1.00e+6 Hz	0.20 @Frequency 1.00e+6 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	BK 30564	
Commercial Status	Europe	

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