

BASF Ultramid® B3ZG6 BK 30564 30% Glass Filled PA6-1 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Description: Impact-modified and 30% glass fiber reinforced injection-molding grade for technical articles of very high stiffness and toughness, for instance, for vehicle airbag housings and suitcase shells. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3ZG6-BK-30564-30-Glass-Filled-PA6-1-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Water Absorption	5.9 - 6.5 %	5.9 - 6.5 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.8 - 2.2 %	1.8 - 2.2 %	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	33.25 g/10 min @Load 5.00 kg, Temperature 275 °C	33.25 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	10 %	10 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	5.30 GPa	769 ksi	ISO 527-1/-2
Flexural Strength	130 MPa	18900 psi	at max force; ISO 178
Flexural Modulus	4.70 GPa	682 ksi	ISO 178
Izod Impact, Notched (ISO)	32.0 kJ/m ² @Temperature 23.0 °C	15.2 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	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	3000 MPa @Strain <=0.500 %	435000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	DIN 52612
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	6.8 @Frequency 1.00 Hz	6.8 @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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