

BASF Ultramid® B3ZG3 15% Glass Filled PA6 (Conditioned)

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

Material Notes:

Ultramid B3ZG3 is an impact-modified, 15% glass fiber reinforced injection molding PA6 grade.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	dry; ISO 1183
Water Absorption	7.5 %	7.5 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	beginning dry (23°C/50% R.H.); ISO 62
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data; MD
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 275 °C	30 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa @Temperature -40.0 °C	18400 psi @Temperature -40.0 °F	ISO Data
Tensile Strength, Ultimate	60.0 MPa	8700 psi	5mm/min; ISO 527
Elongation at Break	18 %	18 %	5mm/min; ISO 527
	5.2 % @Temperature -40.0 °C	5.2 % @Temperature -40.0 °F	ISO Data
Tensile Modulus	2.90 GPa	421 ksi	1mm/min; ISO 527
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	ISO 179
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+10 ohm-cm Metric	1.00e+10 ohm-cm English	IEC 60093 Comments
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.2 @Frequency 1.00e+6 Hz	6.2 @Frequency 1.00e+6 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	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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