

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	7.5 %	7.5 %	ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	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	103 MPa	14900 psi	0.2 in/min; ASTM Test
	163 MPa @Temperature -40.0 °C	23600 psi @Temperature -40.0 °F	ISO Data
Tensile Strength, Ultimate	110 MPa	16000 psi	5mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa @Temperature 80.0 °C	7690 psi @Temperature 176 °F	ISO Data
Elongation at Break	4.0 %	4.0 %	5mm/min; ISO 527
	4.0 %	4.0 %	0.2 in/min; ASTM Test
	4.5 % @Temperature -40.0 °C	4.5 % @Temperature -40.0 °F	ISO Data
Elongation at Yield	8.6 % @Temperature 80.0 °C	8.6 % @Temperature 176 °F	ISO Data
Tensile Modulus	5.17 GPa	750 ksi	ASTM Test
	5.50 GPa	798 ksi	1mm/min; ISO 527
Flexural Modulus	4.48 GPa	650 ksi	ASTM Test

Mechanical Properties	Metric Pa	English	Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.07 J/cm	2.00 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179
	5.50 J/cm ²	26.2 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179
	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.0 µm/m-°C	18.3 µin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75
	204 °C	399 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ISO 75
	193 °C	379 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 1.62 mm	@Thickness 0.0638 in	
	HB	HB	
	@Thickness 0.730 mm	@Thickness 0.0287 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance			IEC 60093

Electrical Properties	1.00e+13 ohm Metric	1.00e+13 ohm English	Comments
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.025 @Frequency 1.00e+6 Hz	0.025 @Frequency 1.00e+6 Hz	IEC 60250
	0.025 @Frequency 100 Hz	0.025 @Frequency 100 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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