

BASF Ultramid® B3ZG6 30% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid B3ZG6 is an impact-modified, 30% glass fiber reinforced injection molding PA6 grade for industrial items having very high impact strength and rigidity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3ZG6-30-Glass-Filled-PA6-Dry.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 %	ISO 62
Moisture Absorption at Equilibrium	1.8 - 2.2 %	1.8 - 2.2 %	23°C/50% R.H.; ISO 62
Viscosity Test	160 cm ³ /g	160 cm ³ /g	Viscosity number; ISO 307
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	33.3 g/10 min @Load 5.00 kg, Temperature 275 °C	33.3 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	150 MPa	21800 psi	50mm/min; ISO 527
Elongation at Yield	3.6 %	3.6 %	50mm/min; ISO 527
Modulus of Elasticity	9.00 GPa	1310 ksi	ISO 527
Flexural Strength	220 MPa	31900 psi	ISO 178
Flexural Modulus	7.40 GPa	1070 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	ISO 180/A
	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	9.00 J/cm ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179/1eA Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C	11.1 - 13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 - 70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C	33.3 - 38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F	ISO 11359-1/-2
Specific Heat Capacity	0.350 J/g-°C	0.0837 BTU/lb-°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	180 °C	356 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @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	Natural	

Descriptive Properties	Value	Comments
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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