

## BASF Ultramid® B3EG6 30% Glass Filled PA6 (Conditioned)

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

### Material Notes:

Ultramid B3EG6 is a 30% glass fiber reinforced injection molding PA6 grade. It conforms to FDA requirements of 21 CFR 177.1500.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3EG6-30-Glass-Filled-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3EG6-30-Glass-Filled-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	6.3 - 6.9 %	6.3 - 6.9 %	ISO 62
Moisture Absorption at Equilibrium	1.9 - 2.3 %	1.9 - 2.3 %	(23°C/50% R.H.); ISO 62
Viscosity Test	140 cm <sup>3</sup> /g	140 cm <sup>3</sup> /g	Viscosity number; ISO 307
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	
Melt Flow	68 g/10 min @Load 5.00 kg, Temperature 275 °C	68 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	115 MPa	16700 psi	50mm/min; ISO 527
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527
Modulus of Elasticity	6.20 GPa	899 ksi	ISO 527
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	11.0 J/cm <sup>2</sup>	52.4 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air			for 50% loss of tensile strength after

Thermal Properties	135 °C Metric	275 °F English	20,000 hr Comments
	165 °C	329 °F	for 50% loss of tensile strength after 5,000 hr
	200 °C	392 °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 1.00e+6 Hz	6.8 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.22 @Frequency 1.00e+6 Hz	0.22 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	575 V	575 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	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	No	
NSF Std. 51	Yes	
NSF Std. 61	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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