

## BASF Ultramid® B3EG3 15% Glass Filled PA6 (Conditioned)

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

### Material Notes:

Description: 15% glass-fiber reinforced injection-molding grade with enhanced impact resistance, for example, for vehicle mirror housings as well as for the wheels of mountain bikes. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3EG3-15-Glass-Filled-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3EG3-15-Glass-Filled-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 1183
Water Absorption	7.7 - 8.3 %	7.7 - 8.3 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	50% RH
	2.3 - 2.9 %	2.3 - 2.9 %	23°C; 50% RH; ISO 62
	7.7 %	7.7 %	Saturation
Viscosity Measurement	140	140	ISO 307
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	restricted
Melt Flow	92.25 g/10 min @Load 5.00 kg, Temperature 275 °C	92.25 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	15 %	15 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	3.50 GPa	508 ksi	ISO 527-1/-2
Flexural Strength	100 MPa	14500 psi	at max force; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	10.5 J/cm <sup>2</sup> @Temperature 23.0 °C	50.0 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	2100 MPa @Strain <=0.500 %	305000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.60 J/g-°C	0.382 BTU/lb-°F	
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	135 °C	275 °F	for 50% loss of tensile strength after 20000hr
	165 °C	329 °F	for 50% loss of tensile strength after 5000hr
	200 °C	392 °F	
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2

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	7.0 @Frequency 1.00 Hz	7.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.24 @Frequency 1.00e+6 Hz	0.24 @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
Commercial Status	Europe and North America	

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