

## BASF Ultramid® B3G8 BK00564 40% Glass Filled PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

### Material Notes:

Ultramid B3G8 BK00564 is a 40% glass filled, pigmented black, injection molding PA6 grade.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3G8-BK00564-40-Glass-Filled-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3G8-BK00564-40-Glass-Filled-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.4 - 6.0 %	5.4 - 6.0 %	ISO 62
Moisture Absorption at Equilibrium	1.6 - 2.0 %	1.6 - 2.0 %	(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
Melt Flow	78.65 g/10 min @Load 5.00 kg, Temperature 275 °C	78.65 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	135 MPa	19600 psi	50mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50mm/min; ISO 527
Modulus of Elasticity	8.20 GPa	1190 ksi	ISO 527
Flexural Strength	205 MPa	29700 psi	ISO 178
Flexural Modulus	7.40 GPa	1070 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	10.5 J/cm <sup>2</sup>	50.0 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.40 J/g-°C	0.335 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	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.0	6.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.13	0.13	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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	BK00564	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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