

## BASF Ultramid® B3ZG6 30% Glass Filled PA6 (Conditioned)

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-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3ZG6-30-Glass-Filled-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	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 <sup>3</sup> /g	160 cm <sup>3</sup> /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	100 MPa	14500 psi	50mm/min; ISO 527
Elongation at Yield	10 %	10 %	50mm/min; ISO 527
Modulus of Elasticity	5.30 GPa	769 ksi	ISO 527
Flexural Strength	89.6 MPa	13000 psi	ISO 178
Flexural Modulus	4.70 GPa	682 ksi	ISO 178
Izod Impact, Notched (ISO)	32.0 kJ/m <sup>2</sup>	15.2 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	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	3000 MPa	435000 psi	ISO 899

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765

Thermal Properties <small>Temperature, Air</small>	Metric	English	Comments
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	6.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.20	0.20	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	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China