

## BASF Ultramid® B3GK24 10/20% Glass Bead/Fiber Filled PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

### Material Notes:

Ultramid B3GK24 is 30% combined glass-fiber and glass bead injection molding PA6 grade for industrial articles having very high dimensional stability.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3GK24-1020-Glass-BeadFiber-Filled-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3GK24-1020-Glass-BeadFiber-Filled-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 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
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	93.8 g/10 min @Load 5.00 kg, Temperature 275 °C	93.8 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ISO 527
Elongation at Yield	15 %	15 %	50mm/min; ISO 527
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m <sup>2</sup>	4.04 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.24 ft-lb/in <sup>2</sup>	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	2000 MPa @Strain 0.500 %	290000 psi @Strain 0.500 %	ISO 899-1

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

Thermal Conductivity Thermal Properties	0.340 W/m-K Metric	2.36 BTU-in/hr-ft <sup>2</sup> -F English	DIN 53765 Comments
Melting Point	220 °C	428 °F	
Maximum Service Temperature, Air	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	4.6 @Frequency 1.00e+6 Hz	4.6 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.070 @Frequency 1.00e+6 Hz	0.070 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	425 V	425 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	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

## Contact Songhan Plastic Technology Co.,Ltd.

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