

BASF Ultramid® B3GK24 BK 00564 10/20% Glass/Glass Bead Filled PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled , Nylon 6, Glass Bead Filled

Material Notes:

Description: combined 10% glass-fiber and 20% glass-bead reinforced injection-molding grade for technical articles of very good dimensional stability, for instance, vehicle ash tray housings and electronic housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3GK24-BK-00564-1020-GlassGlass-Bead-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	6.3 - 6.9 %	6.3 - 6.9 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.9 - 2.3 %	1.9 - 2.3 %	23°C; 50% RH; ISO 62
Viscosity Measurement	140	140	ISO 307
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	restricted
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	50 mm/min; ISO 527-1/-2
Elongation at Yield	15 %	15 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	70.0 MPa	10200 psi	at max force; ISO 178
	100 MPa	14500 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ² @Temperature 23.0 °C	4.04 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	for 50% loss of tensile strength after 20000hr
	200 °C	392 °F	
Decomposition Temperature	>= 300 °C	>= 572 °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 1.00 Hz	4.6 @Frequency 1.00 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
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	260 °C	500 °F	Feed Zone
Zone 2	270 °C	518 °F	Compression
Zone 3	280 °C	536 °F	Metering-zone
Zone 4	280 °C	536 °F	Nozzle
Melt Temperature	270 - 290 °C	518 - 554 °F	Injection-molding/Extrusion
	280 °C	536 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal

Processing Properties	Metric 80.0 °C	English 176 °F	Comments
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	BK 00564	
Commercial Status	Europe	
Ignition Temperature	>400°C	ASTM D129
Peripheral screw speed	< 0.3 m/s	

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