

BASF Ultramid® B3WG7 BK 00564 35% Glass Filled PA6 (Conditioned)

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

Material Notes:

Description: 35% glass-fiber reinforced and heat aging resistant injection-molding grade, e.g. for automotive manifolds and pedals. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3WG7-BK-00564-35-Glass-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption	5.9 - 6.5 %	5.9 - 6.5 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.8 - 2.2 %	1.8 - 2.2 %	23°C; 50% RH; ISO 62
Viscosity Measurement	140	140	ISO 307
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	restricted
Melt Flow	66.45 g/10 min @Load 5.00 kg, Temperature 275 °C	66.45 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	130 MPa	18900 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	7.20 GPa	1040 ksi	ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	at max force; ISO 178
Flexural Modulus	6.30 GPa	914 ksi	ISO 178
Izod Impact, Notched (ISO)	27.0 kJ/m ² @Temperature 23.0 °C	12.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	3.30 J/cm ² @Temperature 23.0 °C	15.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	3300 MPa @Strain <=0.500 %	479000 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	0.360 W/m-K	2.50 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	145 °C	293 °F	for 50% loss of tensile strength after 20000hr
	175 °C	347 °F	for 50% loss of tensile strength after 5000hr
	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	6.2 @Frequency 1.00 Hz	6.2 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.19 @Frequency 1.00e+6 Hz	0.19 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	450 V	450 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	BK 00564	
Commercial Status	Europe	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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