BASF Ultramid® A3WG10 BK 00564 50% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Description: 50% glass-fiber reinforced injection-molding grade with high heat aging resistance for technical articles of very high stiffness.Information provided by BASF

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-A3WG10-BK-00564-50-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in³	ISO 1183
Water Absorption	3.7 - 4.3 %	3.7 - 4.3 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.0 - 1.4 %	1.0 - 1.4 %	23°C; 50% RH; ISO 62
Viscosity Measurement	130	130	ISO 307
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	restricted
Melt Flow	31.2 g/10 min @Load 5.00 kg, Temperature 275 °C	31.2 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	180 MPa	26100 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	12.5 GPa	1810 ksi	ISO 527-1/-2
Flexural Strength	300 MPa	43500 psi	at max force; ISO 178
Flexural Modulus	13.5 GPa	1960 ksi	ISO 178
Izod Impact, Notched (ISO)	14.5 kJ/m² @Temperature 23.0 °C	6.90 ft-lb/in² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm² @Temperature 23.0 °C	47.6 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	2.50 J/cm² @Temperature 23.0 °C	11.9 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	7800 MPa @Strain <=0.500 %	1.13e+6 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	260 °C	500 °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
	240 °C	464 °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	6.6 @Frequency 1.00 Hz	6.6 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @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	290 - 310 °C	554 - 590 °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