

BASF Ultramid® A3WG6 BK 00564 30% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Description: 30% glass-fiber reinforced and heat aging resistant injection-molding grade for machine elements and housings of high stiffness and dimensional stability such as lamp socket housings, fans and insulating profiles for aluminum windows. For electric insulating parts, preference should be given to grade A3Eg6. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3WG6-BK-00564-30-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	5.2 - 5.8 %	5.2 - 5.8 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.5 - 1.9 %	1.5 - 1.9 %	23°C; 50% RH; ISO 62
Viscosity Measurement	145	145	ISO 307
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	restricted
Melt Flow	54.4 g/10 min @Load 5.00 kg, Temperature 275 °C	54.4 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	5.0 %	5.0 %	50mm/min; ISO 527-1/-2
Modulus of Elasticity	7.20 GPa	1040 ksi	ISO 527-1/-2
Flexural Strength	210 MPa	30500 psi	at max force; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Izod Impact, Notched (ISO)	15.5 kJ/m ² @Temperature 23.0 °C	7.38 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	2.20 J/cm ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	5300 MPa	769000 psi	ISO 899-1

Mechanical Properties	@Strain <=0.500 % Metric	@Strain <=0.500 % English	Comments
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Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°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	5.6 @Frequency 1.00 Hz	5.6 @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	280 - 300 °C	536 - 572 °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	

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