

BASF Ultramid® A3HG2 10% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Ultramid A 3HG2 is a 10% glass fiber reinforced grade of nylon 6/6 for injection molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3HG2-10-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	dry; ISO 1183
Water Absorption	7.0 %	7.0 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	beginning dry (23°C/50% R.H.); ISO 62
Viscosity Test	148 cm ³ /g	148 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM Data; MD
Melt Flow	80 g/10 min @Load 5.00 kg, Temperature 275 °C	80 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 MPa	8700 psi	5mm/min; ISO 527
Elongation at Break	12 %	12 %	5mm/min; ISO 527
Tensile Modulus	2.60 GPa	377 ksi	1mm/min; ISO 527
Charpy Impact Unnotched	9.20 J/cm ²	43.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10 K/min
	260 °C	500 °F	ASTM Test

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	5.5	5.5	IEC 60250

Electrical Properties	@Frequency 1.00e+6 Metric	@Frequency 1.00e+6 English	Comments
Dissipation Factor	0.16	0.16	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	550 V	550 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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