BASF Ultramid® A3EG3 15% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Ultramid A3EG3 is a 15% glass fiber reinforced injection molding PA66 grade. It conforms to FDA requirements of 21 CFR 177.1500.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-A3EG3-15-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in³	dry; ISO 1183
Water Absorption	7.0 %	7.0 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	beginning dry (23°C/50% R.H.); ISO 62
Viscosity Test	145 cm³/g	145 cm³/g	Viscosity number
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM Data; MD
Melt Flow	70 g/10 min @Load 5.00 kg, Temperature 275 °C	70 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	85.0 MPa	12300 psi	5mm/min; ISO 527
Elongation at Break	10 %	10 %	5mm/min; ISO 527
Tensile Modulus	4.50 GPa	653 ksi	1mm/min; ISO 527
Flexural Strength	125 MPa	18100 psi	ISO Data
Flexural Modulus	4.00 GPa	580 ksi	ISO Data
Izod Impact, Notched (ISO)	14.0 kJ/m²	6.66 ft-lb/in²	ISO Test
Charpy Impact Unnotched	7.00 J/cm²	33.3 ft-lb/in²	ISO 179
Charpy Impact, Notched	1.10 J/cm²	5.24 ft-lb/in²	ISO 179
Tensile Creep Modulus, 1000 hours	2500 MPa	363000 psi	ISO 899

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 @Frequency 1.00e+6 Hz	5.5 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.16 @Frequency 1.00e+6 Hz	0.16 @Frequency 1.00e+6 Hz	IEC 60250
	0.30 @Frequency 100 Hz	0.30 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	550 V	550 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	
NSF Std. 51	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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