

BASF Ultramid® A3EG7 35% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Ultramid A3EG6 is a 35% glass fiber reinforced injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3EG7-35-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption	4.7 - 5.3 %	4.7 - 5.3 %	ISO 62
Moisture Absorption at Equilibrium	1.4 - 1.8 %	1.4 - 1.8 %	(23°C/50% R.H.); ISO 62
Viscosity Test	145 cm ³ /g	145 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ISO 307
Melt Flow	49.3 g/10 min @Load 5.00 kg, Temperature 275 °C	49.3 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	150 MPa	21800 psi	50mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527
Modulus of Elasticity	8.50 GPa	1230 ksi	ISO 527
Flexural Strength	240 MPa	34800 psi	ISO178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	10.5 J/cm ²	50.0 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	6650 MPa	965000 psi	ISO 899

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	for 50% loss of tensile strength after 20,000 hr
	165 °C	329 °F	for 50% loss of tensile strength after 5,000 hr
	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	5.7	5.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.15	0.15	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	550 V	550 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	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	No	
NSF Std. 61	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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