

BASF Ultramid® A3X2G7 35% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Ultramid A3X2G7 is a 35% glass fiber reinforced injection molding PA66 grade with improved flame retardance and enhanced long-term stability. Flame retardant based on red phosphorus; very high stiffness and strength; outstanding mechanical and electrical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3X2G7-35-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption	4.4 - 5.0 %	4.4 - 5.0 %	ISO 62
Moisture Absorption at Equilibrium	1.0 - 1.4 %	1.0 - 1.4 %	(23°C/50% R.H.); ISO 62
Viscosity Test	140 cm ³ /g	140 cm ³ /g	Viscosity number; ISO 307
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	
Melt Flow	43.5 g/10 min @Load 5.00 kg, Temperature 275 °C	43.5 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	50mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
Modulus of Elasticity	8.50 GPa	1230 ksi	ISO 527
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	4250 MPa	616000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.40 J/g-°C	0.335 BTU/lb-°F	
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	260 °C	500 °F	Test Solution A; DIN 53765
Maximum Service Temperature, Air	140 °C	284 °F	for 50% loss of tensile strength after 20,000 hr

Thermal Properties	Metric	English	Comments
	157 °C	313 °F	For 50% loss of tensile strength after 5,000 hr
	220 °C	428 °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	5.0	5.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.20	0.20	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	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	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Flame retarding agent	
	Heat stabilized or stable to heat	
	Release agent	

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