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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in³	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 cm³/g	140 cm³/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	160 MPa	23200 psi	50mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527
Modulus of Elasticity	11.0 GPa	1600 ksi	ISO 527
Flexural Modulus	9.20 GPa	1330 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m²	6.19 ft-lb/in²	ISO 180/A
Charpy Impact Unnotched	7.00 J/cm²	33.3 ft-lb/in²	ISO 179/1eU
	6.50 J/cm² @Temperature -30.0 °C	30.9 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm²	6.66 ft-lb/in²	ISO 179/1eA
	10.00 J/cm² @Temperature -30.0 °C	47.59 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 - 20.0 µm/m-°C @Temperature 23.0 - 80.0 °C	8.33 - 11.1 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 - 70.0 µm/m-°C @Temperature 23.0 - 80.0 °C	33.3 - 38.9 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
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-ft²-°F	DIN 52612
Melting Point	260 °C	500 °F	DIN 53765
Maximum Service Temperature, Air	140 °C	284 °F	for 50% loss of tensile strength after 20,000 hr
	157 °C	315 °F	for 50% loss of tensile strength after 5,000 hr
	220 °C	428 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	HB @Thickness >=0.400 mm	HB @Thickness >=0.0157 in	
	V-0 @Thickness >=0.750 mm	V-0 @Thickness >=0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	Injection-molding/Extrusion

Processing Properties	Metric	English	Comments
Processing Temperature	30.0 °C	04 °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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