

BASF Ultramid® A3EG6 30% Glass Filled PA66 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Ultramid A3EG6 is a 30% 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-A3EG6-30-Glass-Filled-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	5.2 - 5.8 %	5.2 - 5.8 %	ISO 62
Moisture Absorption at Equilibrium	1.5 - 1.9 %	1.5 - 1.9 %	23°C/50% R.H.; ISO 62
Viscosity Test	145 cm ³ /g	145 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	54.4 g/10 min @Load 5.00 kg, Temperature 275 °C	54.4 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	280 MPa	40600 psi	iso 178
Flexural Modulus	8.60 GPa	1250 ksi	ISO 178
Izod Impact, Notched (ISO)	11.5 kJ/m ²	5.47 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	8.50 J/cm ²	40.5 ft-lb/in ²	ISO 179/1eU
	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eA
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	60.0 - 70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 - 38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Specific Heat Capacity	1.50 $\text{J}/\text{g}\cdot\text{°C}$	0.359 $\text{BTU}/\text{lb}\cdot\text{°F}$	
Thermal Conductivity	0.350 $\text{W}/\text{m}\cdot\text{K}$	2.43 $\text{BTU}\cdot\text{in}/\text{hr}\cdot\text{ft}^2\cdot\text{°F}$	DIN 52612
Melting Point	260 °C	500 °F	DIN 53765
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	ISO 527
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	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 $\text{ohm}\cdot\text{cm}$	1.00e+13 $\text{ohm}\cdot\text{cm}$	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.014	0.014	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	550 V	550 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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