

## BASF Ultramid® A3EG6 30% Glass Filled PA66 (Conditioned)

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-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-A3EG6-30-Glass-Filled-PA66-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	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 <sup>3</sup> /g	145 cm <sup>3</sup> /g	Viscosity number; ISO 307
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	130 MPa	18900 psi	50mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527
Modulus of Elasticity	7.20 GPa	1040 ksi	ISO 527
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Izod Impact, Notched (ISO)	15.5 kJ/m <sup>2</sup>	7.38 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	5300 MPa	769000 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 <sup>2</sup> -°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	5.6 @Frequency 1.00e+6 Hz	5.6 @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
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	
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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