

BASF Ultramid® A3WG5 25% Glass Filled PA66 (Conditioned)

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

Material Notes:

Ultramid A3WG5 is a 25% glass fiber reinforced and heat resistance injection molding PA66 grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3WG5-25-Glass-Filled-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	5.7 - 6.3 %	5.7 - 6.3 %	ISO 62
Moisture Absorption at Equilibrium	1.7 - 2.1 %	1.7 - 2.1 %	(23°C/50% R.H.); ISO 62
Viscosity Test	145 cm ³ /g	145 cm ³ /g	Viscosity number; ISO 307
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	198 g/10 min @Load 5.00 kg, Temperature 275 °C	198 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	6.0 %	6.0 %	50mm/min; ISO 527
Modulus of Elasticity	6.50 GPa	943 ksi	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	9.00 J/cm ²	42.8 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	4400 MPa	638000 psi	ISO 899
	4400 MPa	638000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.60 J/g-°C	0.382 BTU/lb-°F	
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	DIN 53755
Maximum Service Temperature, Air	145 °C	293 °F	for 50% loss of tensile strength after 20,000 hr
	175 °C	347 °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	5.5 @Frequency 1.00e+6 Hz	5.5 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @Frequency 1.00e+6 Hz	IEC 60250
	0.30 @Frequency 100 Hz	0.30 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	450 V	450 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	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China