

BASF Ultramid® FFree A3U40G5 25% Glass Filled PA66 FR (Dry)

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

Material Notes:

Description: Flame retardant without halogens and red phosphorus, 25% glass fiber reinforced injection-molding grade; light colorable; outstanding mechanical and electrical properties. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-FFree-A3U40G5-25-Glass-Filled-PA66-FR-Dry.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	4.0 - 4.6 %	4.0 - 4.6 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.1 - 1.5 %	1.1 - 1.5 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	restricted
Melt Flow	42.6 g/10 min @Load 5.00 kg, Temperature 275 °C	42.6 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	2.8 %	2.8 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	10.0 GPa	1450 ksi	ISO 527-1/-2
Flexural Strength	220 MPa	31900 psi	at max force; ISO 178
Flexural Modulus	9.80 GPa	1420 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	6.00 J/cm ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 - 23.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C	11.7 - 12.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F	DIN 11359-1/-2
CTE, linear, Transverse to Flow	70.0 - 100 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C	38.9 - 55.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F	DIN 11359-1/-2
Melting Point	260 °C	500 °F	DIN 53765
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	ISO 75-1/-2
Flammability, UL94	V-2 @Thickness ≥ 0.400 mm	V-2 @Thickness ≥ 0.0157 in	
	5VA @Thickness ≥ 1.60 mm	5VA @Thickness ≥ 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00 Hz	3.8 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.017 @Frequency 1.00e+6 Hz	0.017 @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
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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