

BASF Ultramid® B3UG4 BK 23215 20% Glass Filled PA66 FR (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Description: Halogen-free and phosphorus free flame retardant injection-molding grade with outstanding free-flow properties, good electrical properties and low smoke density; resistant to glow wire test up to 960 °C. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3UG4-BK-23215-20-Glass-Filled-PA66-FR-Dry.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption	6.6 - 7.2 %	6.6 - 7.2 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.0 - 2.4 %	2.0 - 2.4 %	23°C; 50% RH; ISO 62
Viscosity Measurement	150	150	ISO 307
Melt Flow	157.2 g/10 min @Load 5.00 kg, Temperature 275 °C	157.2 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.0 MPa	13800 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	6.00 GPa	870 ksi	ISO 527-1/-2
Flexural Strength	150 MPa	21800 psi	at max force; ISO 178
Flexural Modulus	5.70 GPa	827 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	3.50 J/cm ² @Temperature -30.0 °C	16.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	0.340 J/cm ²	1.62 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 - 55.0 μm/m-°C @Temperature 23.0 - 80.0 °C	27.8 - 30.6 μin/in-°F @Temperature 73.4 - 176 °F	DIN 11359-1/-2
CTE, linear, Transverse to Flow	50.0 - 60.0 μm/m-°C @Temperature 23.0 - 80.0 °C	27.8 - 33.3 μin/in-°F @Temperature 73.4 - 176 °F	DIN 11359-1/-2
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	160 °C	320 °F	for 50% loss of tensile strength after 20000hr
	185 °C	365 °F	for 50% loss of tensile strength after 5000hr
	200 °C	392 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-1/-2
Flammability, UL94	V-2 @Thickness >=0.710 mm	V-2 @Thickness >=0.0280 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00 Hz	3.8 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.015 @Frequency 1.00e+6 Hz	0.015 @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	250 - 275 °C	482 - 527 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK 23215	
Commercial Status	Europe	

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