

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

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-Conditioned.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	50.0 MPa	7250 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	70.0 MPa	10200 psi	at max force; ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	1500 MPa @Strain <=0.500 %	218000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	$\geq 90.0 \mu\text{m/m-}^{\circ}\text{C}$	$\geq 50.0 \mu\text{in/in-}^{\circ}\text{F}$	
Specific Heat Capacity	1.30 J/g- $^{\circ}\text{C}$	0.311 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² - $^{\circ}\text{F}$	DIN 52612
Melting Point	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	DIN 53765
Maximum Service Temperature, Air	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	for 50% loss of tensile strength after 20000hr
	185 $^{\circ}\text{C}$	365 $^{\circ}\text{F}$	for 50% loss of tensile strength after 5000hr
	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Comparative Tracking Index	550 V	550 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 275 $^{\circ}\text{C}$	482 - 527 $^{\circ}\text{F}$	Injection-molding/Extrusion
Mold Temperature	80.0 - 90.0 $^{\circ}\text{C}$	176 - 194 $^{\circ}\text{F}$	Injection-molding

Descriptive Properties	Value	Comments
Color	BK 23215	
Commercial Status	Europe	

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