BASF Ultramid® B3UG4 Grey 22975 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-Grey-22975-20-Glass-Filled-PA66-FR-Dry.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in³	
Density	1.31 g/cc	0.0473 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.4 %	2.0 - 2.4 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 2577
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
Charpy Impact Unnotched	4.00 J/cm² @Temperature 23.0 °C	19.0 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146
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
Decomposition Temperature	>= 300 °C	>= 572 °F	
	140 °C	284 °F	

Thermal Properties	Metric	English	Comments
UL RTI Electrical	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 746B
Flammability, UL94	V-2 @Thickness >=0.700 mm	V-2 @Thickness >=0.0276 in	
Oxygen Index	29 %	29 %	ISO 4589-2
Glow Wire Test	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	IEC 60695-2-12

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	600 V	600 V	Test solution A; IEC 60112
Hot Wire Ignition, HWI	2.0 sec @Thickness >=1.50 mm	2.0 sec @Thickness >=0.0591 in	ASTM D3874-88
High Amp Arc Ignition, HAI	0.00 arcs @Thickness >=0.700 mm	0.00 arcs @Thickness >=0.0276 in	UL 746C

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	250 °C	482 °F	Feed Zone
Zone 2	260 °C	500 °F	Compression
Zone 3	270 °C	518 °F	Metering-zone
Zone 4	270 °C	518 °F	Nozzle
Melt Temperature	250 - 275 °C	482 - 527 °F	Injection-molding/Extrusion
	270 °C	518 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal

Processing Properties	Metric	English	Comments
	80.0 - 90.0 °C	176 - 194 °F	Injection-molding
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	Grey 22975	
Commercial Status	Europe	
Ignition Temperature	>350°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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