

BASF Ultramid® A3XZG5 BK 23187 25% Glass Filled PA66 FR (Conditioned)

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

Material Notes:

Description: Impact-modified, 25% glass-fiber reinforced injection-molding grade with improved flame retardance and enhanced long-term stability. Flame retardant based on red phosphorus; for components requiring high stiffness and enhanced toughness like photovoltaic connectors and junction boxes. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3XZG5-BK-23187-25-Glass-Filled-PA66-FR-Conditioned.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	4.7 - 5.3 %	4.7 - 5.3 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.0 - 1.4 %	1.0 - 1.4 %	23°C; 50% RH; ISO 62
Viscosity Measurement	140	140	ISO 307
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	restricted

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	11 %	11 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	4.50 GPa	653 ksi	ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	2000 MPa @Strain <=0.500 %	290000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	>= 36.0 µm/m-°C	>= 20.0 µin/in-°F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	260 °C	500 °F	DIN 53765

Thermal Properties	Metric	English	Comments
Decomposition Temperature	>= 310 °C	>= 590 °F	
UL RTI, Electrical	120 °C @Thickness 1.50 mm	248 °F @Thickness 0.0591 in	UL 746B
Oxygen Index	28 %	28 %	ISO 4589-2

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	4.0 @Frequency 1.00 Hz	4.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.030 @Frequency 1.00e+6 Hz	0.030 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	575 V	575 V	Test solution A; IEC 60112
Hot Wire Ignition, HWI	0.00 sec @Thickness >=0.750 mm	0.00 sec @Thickness >=0.0295 in	ASTM D3874-88
High Amp Arc Ignition, HAI	0.00 arcs @Thickness >=0.750 mm	0.00 arcs @Thickness >=0.0295 in	UL 746C

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	290 °C	554 °F	Feed Zone
Zone 2	290 °C	554 °F	Compression
Zone 3	290 °C	554 °F	Metering-zone
Zone 4	290 °C	554 °F	Nozzle
Melt Temperature	280 - 300 °C	536 - 572 °F	Injection-molding/Extrusion
	290 °C	554 °F	Optimal
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	Injection-molding
	80.0 °C	176 °F	Optimal

Processing Properties	Metric	English	Comments
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	BK 23187	
Commercial Status	Europe	
Ignition Temperature	>350°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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