

BASF Ultramid® B3WG6 GP BK 23210 30% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Description: 30% Glass fiber reinforced and heat aging resistant injection molding grade used e.g. for automobile manifold. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3WG6-GP-BK-23210-30-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	6.3 - 6.9 %	6.3 - 6.9 %	ISO 62
Moisture Absorption at Equilibrium	1.9 - 2.3 %	1.9 - 2.3 %	23°C; 50% RH; ISO 62
Viscosity Measurement	145	145	ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527-1/-2
Flexural Strength	260 MPa	37700 psi	ISO 178
Flexural Modulus	8.70 GPa	1260 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146
Maximum Service Temperature, Air	200 °C	392 °F	
Deflection Temperature at 0.46 MPa	220 °C	428 °F	

(55 psi) Thermal Properties	Metric	English	ISO 75-1/-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-1/-2
Decomposition Temperature	>= 300 °C	>= 572 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	260 °C	500 °F	Feed Zone
Zone 2	270 °C	518 °F	Compression
Zone 3	280 °C	536 °F	Metering-zone
Zone 4	280 °C	536 °F	Nozzle
Melt Temperature	270 - 290 °C	518 - 554 °F	Injection Molding/Extrusion
	280 °C	536 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal
	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	BK 23210	
Commercial Status	Europe	
Ignition Temperature	>400°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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