

BASF Ultramid® B3WGM 24 HP BK 23210 10/20% Glass/Mineral Filled PA6-1 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Description: 20% mineral-filled and 10% glass-fiber reinforced injection-molding grade with outstanding flowability for technical parts with medium rigidity and high dimensional stability, e.g. for automotive engine covers, housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3WGM-24-HP-BK-23210-1020-GlassMineral-Filled-PA6-1-Dry.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	6.9 - 7.5 %	6.9 - 7.5 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.1 - 2.5 %	2.1 - 2.5 %	23°C; 50% RH; ISO 62
Viscosity Measurement	123	123	ISO 307
Melt Flow	116.45 g/10 min @Load 5.00 kg, Temperature 275 °C	116.45 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	2.7 %	2.7 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	8.50 GPa	1230 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ² @Temperature -30.0 °C	2.62 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 - 110 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 - 61.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	DIN 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	34.0 - 38.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.9 - 21.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	DIN 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Specific Heat Capacity	1.30 $\text{J}/\text{g}\cdot\text{°C}$	0.311 $\text{BTU}/\text{lb}\cdot\text{°F}$	
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	180 °C	356 °F	
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 $\text{ohm}\cdot\text{cm}$	1.00e+13 $\text{ohm}\cdot\text{cm}$	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 1.00 Hz	@Frequency 1.00 Hz	
Dissipation Factor	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 °C	482 - 554 °F	Injection-molding/Extrusion
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK 23210	
Commercial Status	Europe	

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