BASF Ultramid® B3M6 BK60564 30% Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

Material Notes:

ultramid B3M6 BK60564 is a 30% mineral reinforced, pigmented black injection molding PA6 grade for industrial items requiring high impact strength and very high dimensional stability, excellent laser markability.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-B3M6-BK60564-30-Mineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	ISO 1183
Water Absorption	5.9 - 6.5 %	5.9 - 6.5 %	ISO 62
Moisture Absorption at Equilibrium	2.2 - 2.6 %	2.2 - 2.6 %	23°C/50% R.H.; ISO 62
Viscosity Measurement	145	145	Viscosity Number; ISO 307
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	
Melt Flow	81.6 g/10 min @Load 5.00 kg, Temperature 275 °C	81.6 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	50mm/min; ISO 527
Elongation at Yield	12 %	12 %	50mm/min; ISO 527
Modulus of Elasticity	4.60 GPa	667 ksi	ISO 527
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ISO 178
Izod Impact, Notched (ISO)	6.50 kJ/m²	3.09 ft-lb/in²	ISO 180/A
Charpy Impact Unnotched	19.0 J/cm²	90.4 ft-lb/in²	ISO 179/1eU
	10.0 J/cm² @Temperature -30.0 °C	47.6 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm²	4.28 ft-lb/in²	ISO 179/1eA
	0.500 J/cm² @Temperature -30.0 °C	2.38 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 - 80.0 µm/m-°C @Temperature 23.0 - 80.0 °C	27.8 - 44.4 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 - 70.0 µm/m-°C @Temperature 23.0 - 80.0 °C	27.8 - 38.9 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-1/-2
Specific Heat Capacity	1.40 J/g-°C	0.335 BTU/lb-°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	180 °C	356 °F	
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	450 V	450 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK60564	

Descriptive Properties	Value	Comments
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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