

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

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

### Material Notes:

Ultramid B3M6 is a 30% mineral reinforced 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-B3M6-30-Mineral-Filled-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3M6-30-Mineral-Filled-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	6.2 %	6.2 %	ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	23°C/50% R.H.; ISO 62
Viscosity Test	150 cm <sup>3</sup> /g	150 cm <sup>3</sup> /g	Viscosity number
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	85.0 MPa	12300 psi	5mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	0.2 in/min; ASTM Test
	15 %	15 %	5mm/min; ISO 527
Tensile Modulus	4.60 GPa	667 ksi	1mm/min; ISO 527
	5.17 GPa	750 ksi	ASTM Test
Flexural Modulus	4.00 GPa	580 ksi	ISO Data
	4.10 GPa	595 ksi	ASTM Test
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.640 J/cm	1.20 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	6.50 kJ/m <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	ISO Test
Charpy Impact Unnotched	22.0 J/cm <sup>2</sup>	105 ft-lb/in <sup>2</sup>	ISO 179
	14.5 J/cm <sup>2</sup>	69.0 ft-lb/in <sup>2</sup>	ISO 179

Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	Comments
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ASTM Test
	195 °C	383 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM Test
	120 °C	248 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.020 Metric	0.020 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	450 V	450 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

## Contact Songhan Plastic Technology Co.,Ltd.

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