

## BASF Ultramid® B3L BK00464 PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Description: Impact-modified, free-flowing and rapidly processable injection-molding grade for dry impact-resistant technical articles such as, for example, housings, fittings, small parts and wall plugs. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3L-BK00464-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3L-BK00464-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Water Absorption	8.5 - 9.5 %	8.5 - 9.5 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.1 - 2.9 %	2.1 - 2.9 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	restricted
Melt Flow	121 g/10 min @Load 5.00 kg, Temperature 275 °C	121 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	2.80 GPa	406 ksi	ISO 527-1/-2
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.62 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/A
	15.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	1.00 J/cm <sup>2</sup> Metric	4.76 ft-lb/in <sup>2</sup> English	Comments <sub>A</sub>
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 - 100 µm/m-°C @Temperature 23.0 - 80.0 °C	38.9 - 55.6 µin/in-°F @Temperature 73.4 - 176 °F	DIN 11359-1/-2
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	160 °C	320 °F	
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/-2
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 1.00 Hz	3.5 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.024 @Frequency 1.00e+6 Hz	0.024 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	Injection-molding/Extrusion
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	Injection-molding

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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