

## BASF Ultramid® B3L PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

### Material Notes:

Ultramid B3L is an impact-modified, easy flowing injection molding PA6 grade for fast processing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3L-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3L-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 %	ISO 62
Moisture Absorption at Equilibrium	2.1 - 2.9 %	2.1 - 2.9 %	23°C/50% R.H.; ISO 62
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	50mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50mm/min; ISO 527
Modulus of Elasticity	2.80 GPa	406 ksi	ISO 527
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO180/A
	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
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 - 100 µm/m-°C	38.9 - 55.6 µin/in-°F	ISO 11359-1/-2

Thermal Properties	@Temperature 23.0 - 30.0 °C Metric	@Temperature 73.4 - 86.0 °F English	Comments
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 53762
Maximum Service Temperature, Air	160 °C	320 °F	
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	IEC 60250
	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
Color	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	Yes	

Descriptive Properties	Technique	Value	Injection Molding	Comments
Processing			Injection Molding	
Special characteristic			Heat stabilized or stable to heat	
			Release agent	

## Contact Songhan Plastic Technology Co.,Ltd.

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