

BASF Ultramid® B3L PA6 (Conditioned)

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	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	35.0 MPa	5080 psi	50mm/min; ISO 527
Elongation at Yield	18 %	18 %	50mm/min; ISO 527
Modulus of Elasticity	0.900 GPa	131 ksi	ISO 527
Izod Impact, Notched (ISO)	NB	NB	ISO 180/A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	NB	NB	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	550 MPa	79800 psi	ISO 899

Thermal Properties	Metric	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 ² -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	160 °C	320 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	1.00e+10 ohm Metric	1.00e+10 ohm English	IEC 60093 Comments
Dielectric Constant	6.4 @Frequency 1.00e+6 Hz	6.4 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.24 @Frequency 1.00e+6 Hz	0.24 @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	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
	Release agent	

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