

BASF Ultramid® B3L BK00464 PA6 (Conditioned)

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-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 %	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	35.0 MPa	5080 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	18 %	18 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	0.900 GPa	131 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	550 MPa @Strain <=0.500 %	79800 psi @Strain <=0.500 %	ISO 899-1

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

Thermal Properties	Metric	English	Comments
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	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.4 @Frequency 1.00 Hz	6.4 @Frequency 1.00 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
Commercial Status	Europe	

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