

BASF Ultramid® B3K BK00464 PA6 (Conditioned)

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

Material Notes:

Description: Easy flowing and stabilized injection-molding grade used for technical parts with wall thicknesses >2 mm, e.g. machinery components, fans and power tool housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3K-BK00464-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	9.0 - 10 %	9.0 - 10 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.6 - 3.4 %	2.6 - 3.4 %	23°C; 50% RH; ISO 62
Viscosity Measurement	150	150	ISO 307
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	restricted
Melt Flow	180.8 g/10 min @Load 5.00 kg, Temperature 275 °C	180.8 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	20 %	20 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	1.00 GPa	145 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	6.00 J/cm ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	700 MPa @Strain <=0.500 %	102000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	for 50% loss of tensile strength after 20000hr
	112 °C	234 °F	for 50% loss of tensile strength after 5000hr
	180 °C	356 °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	7.0 @Frequency 1.00 Hz	7.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @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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