

BASF Ultramid® A3K BK 00464 PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced

Material Notes:

Description: Easy flowing injection-molding grade for fast processing. Uses include highly stressed technical parts such as bearings and gear wheels; also electrically insulating parts such as terminals and cable connectors, as Fc grade suitable for food contact. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3K-BK-00464-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	8.0 - 9.0 %	8.0 - 9.0 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.5 - 3.1 %	2.5 - 3.1 %	23°C; 50% RH; ISO 62
Viscosity Measurement	150	150	ISO 307
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	restricted
Melt Flow	129.95 g/10 min @Load 5.00 kg, Temperature 275 °C	129.95 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	20 %	20 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	1.10 GPa	160 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	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	700 MPa	102000 psi	ISO 899-1

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

Thermal Properties	Metric ^{W/m-K}	English ^{U-in/hr-ft²-°F}	Comments
Melting Point	260 °C	500 °F	DIN 53765
Maximum Service Temperature, Air	101 °C	214 °F	for 50% loss of tensile strength after 20000hr
	118 °C	244 °F	for 50% loss of tensile strength after 5000hr
	200 °C	392 °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	5.0 @Frequency 1.00 Hz	5.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.00020 @Frequency 1.00e+6 Hz	0.00020 @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	280 - 300 °C	536 - 572 °F	Injection-molding/Extrusion
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK 00464	
Commercial Status	Europe	

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