

BASF Ultramid® A3Z BK 30464 PA66 (Conditioned)

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

Material Notes:

Description: Impact-modified and stabilized injection- molding grade for components and housings with good low temperature impact resistance. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3Z-BK-30464-PA66-Conditioned.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Water Absorption	6.7 - 7.7 %	6.7 - 7.7 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.0 - 2.6 %	2.0 - 2.6 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	restricted
Melt Flow	10.6 g/10 min @Load 5.00 kg, Temperature 275 °C	10.6 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 Break	18 %	18 %	Nominal, 50mm/min; ISO 527-1/-2
Modulus of Elasticity	0.850 GPa	123 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	50.0 kJ/m ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	260 °C	500 °F	DIN 53765

Thermal Properties	Metric	English	Comments
Decomposition Temperature	= 310 °C	= 590 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00 Hz	3.6 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.070 @Frequency 1.00e+6 Hz	0.070 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	290 °C	554 °F	Feed zone
Zone 2	290 °C	554 °F	Compression
Zone 3	290 °C	554 °F	Metering-zone
Zone 4	290 °C	554 °F	Nozzle
Melt Temperature	280 - 300 °C	536 - 572 °F	Injection-molding/Extrusion
	290 °C	554 °F	Optimal
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	Injection-molding
	60.0 °C	140 °F	Optimal
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	BK 30464	
Commercial Status	Europe	

Ignition Temperature Descriptive Properties	~400°C Value	ASTM D1929 Comments
Peripheral screw speed	< 0.3 m/s	

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