



Ultramid® A3K BK00464

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid A3K BK00464 is an easy flowing, pigmented black, injection molding grade PA66.

Applications

Typical applications include fast processing high stress technical parts or electrically insulating parts.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Fast Molding Cycle	• Good Flow	• Oil Resistant
Uses	• Electronic Insulation		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WSK-M4D647-A • FORD WSS-M4D648-B1	• FORD WSS-M4D648-B2 • GM GMP.PA66.005 Color: Black	• GM GMW16036P-PA66 Color: Black • GM QK 002911
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	8.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	522000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	12600	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.2	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.4	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	392	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	167	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	104 to 176	°F
Injection Pressure	508 to 1810	psi

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Injection	Nominal Value	Unit
Injection Rate		Fast

Notes

¹ Typical properties: these are not to be construed as specifications.