

# Ultramid® A 3K BK00464

Polyamide 66

BASF Corporation

## Product Description

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

## General

Material Status	• Commercial: Active
Availability	• Europe • North America
Additive	• Heat Stabilizer
Features	• Fast Molding Cycle • Good Weather Resistance • Oil Resistant • Good Flow • Heat Stabilized • Good Thermal Aging Resistance • Low Viscosity
Uses	• Electronic Insulation • Engineering Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

## Physical

	Nominal Value	Unit	Test Method
Density	1130	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			ISO 62 <sup>2</sup>
Saturation	8.5	%	
Equilibrium	2.8	%	

## Mechanical

	Nominal Value	Unit	Test Method
Tensile modulus	3600	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Yield)	87.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Yield)	4.2	%	ISO 527-2 <sup>2</sup>

## Impact

	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	5.00	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>

## Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	75.0	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	260	°C	ISO 3146

## Injection

	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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