

# Ultramid® A 3HG5 BK00564

Polyamide 66

BASF Corporation

## Product Description

Ultramid A3HG5 BK00564 is a 25% glass fiber reinforced, pigmented black, injection molding PA66 grade.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Good Flow • Good Thermal Aging Resistance • Good Weather Resistance • Heat Stabilized • High Rigidity • Low Viscosity • Oil Resistant
Uses	• Housings
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

## Physical

	Nominal Value	Unit	Test Method
Density	1320	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			
24 hr, 23°C	1.9	%	ISO 62
Saturation	6.0	%	ISO 62 <sup>2</sup>
Equilibrium	1.9	%	ISO 62 <sup>2</sup>

## Mechanical

	Nominal Value	Unit	Test Method
Tensile modulus	8500	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	165	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.0	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	7600	MPa	ISO 178

## Impact

	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	7.00	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Notched Izod Impact Strength			ISO 180
-40°C	6.00	kJ/m <sup>2</sup>	
23°C	7.10	kJ/m <sup>2</sup>	

## Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	260	°C	
1.8 MPa	246	°C	
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	0.12	%
Processing (Melt) Temp	280 to 305	°C
Mold Temperature	80.0 to 90.0	°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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