

# Ultramid® A3HG7 BK00564

Polyamide 66

BASF Corporation

## Message:

Ultramid A3HG7 BK00564 is a 35% glass fiber reinforced, pigmented black injection molding PA66 grade.

### Applications

Typical applications include machinery components and housings of high stiffness and dimensional stability such as gears, solenoid valve housings, electrical flow heaters, trailing cable attachments, as well as electrically insulating parts.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Good Dimensional Stability		
	High Stiffness		
Uses	Electronic Insulation		
	Gears		
	Housings		
	Machine/Mechanical Parts		
	Valves/Valve Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm <sup>3</sup>	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.0	%	
Equilibrium, 23°C, 50% RH	1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	190	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.6	%	ISO 527-2
Flexural Modulus (23°C)	9800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	9.0	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
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	0.15	%
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	

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#### Recommended distributors for this material

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