# **Ultramid® A3HG5 BK00565**



## **BASF Corporation**



### **Technical Data**

## **Product Description**

Ultramid A3HG5 BK00565 is a 25% glass fiber reinforced, pigmented black, injection molding PA66 grade.

#### **Applications**

Typical applications include machinery components and housings of high stiffness and dimensional stability.

General	
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General	
Material Status	Commercial: Active
Literature <sup>1</sup>	Technical Datasheet (English)
Search for UL Yellow Card	BASF Corporation     Ultramid®
Availability	North America
Filler / Reinforcement	Glass Fiber, 25% Filler by Weight
Features	High Dimensional Stability     High Stiffness
Uses	Housings     Machine/Mechanical 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	1.32 g/cm³	ISO 1183
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	8500 MPa	ISO 527-1
Tensile Stress (Break, 23°C)	168 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.9 %	ISO 527-2
Flexural Modulus (23°C)	7770 MPa	ISO 178
Flexural Stress (23°C)	240 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-40°C	6.8 kJ/m²	
23°C	7.8 kJ/m²	
Charpy Unnotched Impact Strength		ISO 179
-30°C	44 kJ/m²	
23°C	55 kJ/m²	
Notched Izod Impact Strength		ISO 180
-40°C	7.0 kJ/m²	
23°C	7.9 kJ/m²	
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	262 °C	ISO 75-2/B
1.8 MPa, Unannealed	250 °C	ISO 75-2/A
Melting Temperature (DSC)	260 °C	ISO 3146

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## **Ultramid® A3HG5 BK00565**

Polyamide 66

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Injection	Nominal Value Unit	
Drying Temperature	80 °C	
Drying Time	2.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	
Processing (Melt) Temp	280 to 305 °C	
Mold Temperature	80 to 90 °C	
Injection Pressure	3.50 to 12.5 MPa	
Injection Rate	Fast	

#### **Notes**

Form No. TDS-422770-en

<sup>&</sup>lt;sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>&</sup>lt;sup>2</sup> Typical properties: these are not to be construed as specifications.

#### Ultramid® A3HG5 BK00565

Polyamide 66

## **BASF Corporation**



#### Where to Buy

#### Supplier

**BASF Corporation** 

Wyandotte, Wyandotte USA Telephone: 800-545-8359

Web: https://www.basf.com/us/en.html

#### Distributor

**Amco Polymers** 

Telephone: 800-262-6685

Web: http://www.amcopolymers.com/

Availability: North America

**Entec Polymers** 

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm\_source=ul&utm\_medium=paid%20association&utm\_campaign=entec%20%7C%20entec

%201&utm term=ul%20%7C%20where%20to%20buy

Availability: North America

**Entec Polymers Latin America** 

Contact Entec Polymers for availability of individual products by country.

Web: https://www.entecpolymers.com/

Availability: Latin America

M. Holland Canada Company

Telephone: 905-665-1168
Web: http://www.mholland.com/

Availability: Canada

M. Holland Company

Telephone: 855-497-1403 Web: http://www.mholland.com/ Availability: Mexico, United States

## **Nexeo Plastics**

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at

www.nexeoplastics.com. Telephone: 833-446-3936

Web: https://www.nexeoplastics.com/

Availability: North America



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