

# Ultramid® A3HG5 BK00564

### **BASF Corporation - Polyamide 66**

Monday, November 4, 2019

### **General Information**

#### **Product Description**

Ultramid A3HG5 BK00564 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			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	<ul> <li>Glass Fiber, 25% Filler by We</li> </ul>	eight	
Features	<ul> <li>High Dimensional Stability</li> </ul>	High Stiffness	<ul> <li>Oil Resistant</li> </ul>
Uses	Housings	Machine/Mechanical Par	rts
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
Automotive Specifications	<ul> <li>FORD WSK-M4D641-A</li> </ul>	• GM GMW3038P-PA66-0	GF25H • GM QK 003012 H
Appearance	Black		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.32	g/cm³	ISO 1183	
Water Absorption (Saturation, 73°F)	6.0	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.9	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (73°F)	1.23E+6	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	23900	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2	
Flexural Modulus (73°F)	1.10E+6	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in²	ISO 179	
Notched Izod Impact Strength			ISO 180	
-40°F	2.9	ft·lb/in²		
73°F	3.4	ft·lb/in²		
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (66 psi, Unannealed)	500	°F	ISO 75-2/B	
Heat Deflection Temperature (264 psi, Unannealed)	475	°F	ISO 75-2/A	
Melting Temperature (DSC)	500	°F	ISO 3146	

Injection	Nominal Value Unit	
Drying Temperature	176 °F	
Drying Time	2.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	



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Injection	Nominal Value Unit
Processing (Melt) Temp	536 to 581 °F
Mold Temperature	176 to 194 °F
Injection Pressure	508 to 1810 psi
Injection Rate	Fast

#### **Notes**

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