

## Ultramid® A3EG7 HP BK23189

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

Monday, November 4, 2019

#### **General Information**

#### **Product Description**

Ultramid A3EG7 HP BK23189 is a high flow, 35% glass fiber reinforced, pigmented black, laser markable injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability.

#### Applications

Typical applications include lamp socket housings, cooling fans, insulating profile for aluminium window frames, water containers for automotive cooling systems, as well as electrically insulating parts.

General			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	Glass Fiber, 35% Filler by Weight		
Features	<ul><li> High Dimensional Stability</li><li> High Flow</li></ul>	<ul><li>High Stiffness</li><li>Laser Markable</li></ul>	
Uses	<ul><li>Automotive Applications</li><li>Containers</li></ul>	<ul><li> Electronic Insulation</li><li> Housings</li></ul>	Machine/Mechanical Parts
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.41	g/cm³	ISO 1183	
Water Absorption (Saturation, 73°F)	5.0	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.6	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (73°F)	1.60E+6	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	29000	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	2.6	%	ISO 527-2	
Flexural Modulus (73°F)	1.46E+6	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179	
-22°F	3.9	ft·lb/in²		
73°F	4.5	ft·lb/in²		
Notched Izod Impact Strength (73°F)	4.4	ft·lb/in²	ISO 180	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	486	°F	ISO 75-2/A	
Melting Temperature (DSC)	500	°F	ISO 3146	

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Processing Information			
njection	Nominal Value Unit		
Drying Temperature	176 °F		
Drying Time	2.0 to 4.0 hr		
Suggested Max Moisture	0.15 %		
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.