

Ultramid® A3HG7 BK00564

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

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 General	•		
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	 Glass Fiber, 35% Filler by We 	eight	
Features	 High Dimensional Stability 	High Stiffness	Oil Resistant
Uses	 Electronic Insulation Gears	 Housings Machine/Mechanical Parts	Valves/Valve Parts
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	 RoHS Compliant 		
Automotive Specifications	 GM GMW16802P-PA66-GF3: Color: Black GM GMW16802P-PA66-GF3: Color: Natural 	Color: Black	
Appearance	Black		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹				
Nominal Value	Unit	Test Method		
1.40	g/cm³	ISO 1183		
5.0	%	ISO 62		
1.6	%	ISO 62		
Nominal Value	Unit	Test Method		
1.61E+6	psi	ISO 527-2		
27600	psi	ISO 527-2		
2.6	%	ISO 527-2		
1.42E+6	psi	ISO 178		
Nominal Value	Unit	Test Method		
4.3	ft·lb/in²	ISO 180		
Nominal Value	Unit	Test Method		
482	°F	ISO 75-2/A		
500	°F	ISO 3146		
	Nominal Value 1.40 5.0 1.6 Nominal Value 1.61E+6 27600 2.6 1.42E+6 Nominal Value 4.3 Nominal Value 482	Nominal Value Unit		

Processing Information			
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

¹ Typical properties: these are not to be construed as specifications.