

Ultramid® A3WG7 HP BK20560

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information				
Product Description				
Ultramid A3WG7 HP BK20560 is a	35% glass reinforced, heat stabilized,	injection molding PA66 grade with excellent flow and surface finish.		
General				
Material Status	 Commercial: Active 			
Availability	Asia Pacific	North America		
Filler / Reinforcement	Glass Fiber, 35% Filler by Weight			
Additive	 Heat Stabilizer 			
Conturns	 Good Surface Finish 	High Flow		
Features	 Heat Stabilized 	Oil Resistant		
Agency Ratings	• EC 1907/2006 (REACH)			
RoHS Compliance	 RoHS Compliant 			
Automotive Specifications	 FORD WSS-M4D673-B1 	• GM QK 003014 H		
Appearance	Black			
Forms	 Pellets 			
Processing Method	Injection Molding			

ASTM & ISO Properties ¹				
Dry	Conditioned	Unit	Test Method	
1.41		g/cm³	ISO 1183	
			ISO 294-4	
0.80		%		
0.30		%		
Dry	Conditioned	Unit	Test Method	
1.62E+6	1.22E+6	psi	ISO 527-2	
30500	21200	psi	ISO 527-2	
3.4	4.7	%	ISO 527-2	
1.45E+6	1.04E+6	psi	ISO 178	
Dry	Conditioned	Unit	Test Method	
			ISO 179	
5.7	6.2	ft·lb/in²		
7.1	8.6	ft·lb/in²		
			ISO 179	
38	36	ft·lb/in²		
45	48	ft·lb/in²		
			ISO 180	
5.7	6.2	ft·lb/in²		
6.7	8.1	ft·lb/in²		
Dry	Conditioned	Unit	Test Method	
			ISO 75-2/A	
475		°F		
500		°F	ISO 3146	
	Dry 1.41 0.80 0.30 Dry 1.62E+6 30500 3.4 1.45E+6 Dry 5.7 7.1 38 45 5.7 6.7 Dry	Dry Conditioned 1.41 0.30 Dry Conditioned 1.62E+6 1.22E+6 30500 21200 3.4 4.7 1.45E+6 1.04E+6 Dry Conditioned 5.7 6.2 7.1 8.6 38 36 45 48 5.7 6.2 6.7 8.1 Dry Conditioned	Dry Conditioned Unit 1.41 g/cm³ 0.80 % 0.30 % Dry Conditioned Unit 1.62E+6 1.22E+6 psi 30500 21200 psi 3.4 4.7 % 1.45E+6 1.04E+6 psi Dry Conditioned Unit 5.7 6.2 ft·lb/in² 7.1 8.6 ft·lb/in² 45 48 ft·lb/in² 5.7 6.2 ft·lb/in² 5.7 6.2 ft·lb/in² 6.7 8.1 ft·lb/in² Dry Conditioned Unit	



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Processing Information				
Injection	Dry 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

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