

Ultramid® B3WGM24 HPX BK23210

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3WGM24 HPX BK23210 is a very high productivity, 30% glass/mineral reinforced heat stabilized injection molding PA6 grade for components that require medium rigidity, excellent dimensional stability, low warpage out of the tool and excellent appearance.

Applications

Typical applications include automobile engine covers, housings and automotive door handles.

General			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	Glass\Mineral, 30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat StabilizedHigh Dimensional Stability	Low WarpageMedium Rigidity	Oil ResistantPleasing Surface Appearance
Uses	 Automotive Applications 	Automotive Under the Hood	Housings
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	 RoHS Compliant 		
Automotive Specifications	• FORD WSS-M4D968-B1		
Appearance	Black		
Forms	• Pellets		
Processing Method	 Injection Molding 		

ASTM & ISO Properties 1					
Nominal Value	Unit	Test Method			
1.36	g/cm³	ISO 1183			
Nominal Value	Unit	Test Method			
1.15E+6	psi	ISO 527-2			
16000	psi	ISO 527-2			
3.0	%	ISO 527-2			
1.15E+6	psi	ISO 178			
Nominal Value	Unit	Test Method			
2.1	ft·lb/in²	ISO 179			
		ISO 180			
2.1	ft·lb/in²				
2.5	ft·lb/in²				
Nominal Value	Unit	Test Method			
410	°F	ISO 75-2/B			
374	°F	ISO 75-2/A			
428	°F	ISO 3146			
	Nominal Value 1.36 Nominal Value 1.15E+6 16000 3.0 1.15E+6 Nominal Value 2.1 2.5 Nominal Value 410 374	Nominal Value Unit 1.36 g/cm³ Nominal Value Unit 1.15E+6 psi 16000 psi 3.0 % 1.15E+6 psi Nominal Value Unit 2.1 ft·lb/in² 2.5 ft·lb/in² Nominal Value Unit 410 °F 374 °F 1.35E+6			



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Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	181	°F		
Drying Time	2.0 to 4.0	hr		
Suggested Max Moisture	0.15	%		
Processing (Melt) Temp	518 to 563	°F		
Mold Temperature	176 to 203	°F		
Injection Pressure	508 to 1810	psi		
Injection Rate	Fast			

Notes

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