

Ultramid® B3WGM24 HPX BK23210

Polyamide 6

BASF Corporation

Message:

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 Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability		
	Heat Stabilized		
	Low Warpage		
	Medium Rigidity		
	Oil Resistant		
Uses	Pleasing Surface Appearance		
	Automotive Applications		
	Automotive Under the Hood		
	Housings		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7960	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.4	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	4.4	kJ/m ²	
23°C	5.2	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method


Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	83.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	270 to 295	°C	
Mold Temperature	80.0 to 95.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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