

# Ultramid® B 3WGM24 HPX BK23210

Polyamide 6

BASF Corporation

## 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.

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	• Fast Molding Cycle • Good Dimensional Stability • Heat Stabilized • Low Warpage • Medium Rigidity • Pleasing Surface Appearance
Uses	• Automotive Applications • Automotive Under the Hood • Handles • Housings • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

Physical	Nominal Value	Unit	Test Method
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Density	1.36	g/cm <sup>3</sup>	ISO 1183
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Modulus (23°C)	7900	MPa	ISO 527-2
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Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2
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Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
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Flexural Modulus (23°C)	7960	MPa	ISO 178
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Impact	Nominal Value	Unit	Test Method
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Charpy Notched Impact Strength (23°C)	4.4	kJ/m <sup>2</sup>	ISO 179
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Notched Izod Impact Strength			ISO 180
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-40°C	4.40	kJ/m <sup>2</sup>	
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23°C	5.20	kJ/m <sup>2</sup>	
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Thermal	Nominal Value	Unit	Test Method
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Heat Deflection Temperature			
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0.45 MPa, Unannealed	210	°C	ISO 75-2/B
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1.8 MPa, Unannealed	190	°C	ISO 75-2/A
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Melting Temperature (DSC)	220	°C	ISO 3146
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Injection	Nominal Value	Unit
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Suggested Max Moisture	0.10	%
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Processing (Melt) Temp	270 to 295	°C
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Mold Temperature	80.0 to 95.0	°C
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Injection Pressure	3.50 to 12.5	MPa
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Injection Rate	Fast	
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## Injection Notes

Product is supplied in sealed containers and drying prior to molding is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 80 °C (176 °F) is recommended. Drying time is dependent on moisture level, but 2-4 hours is generally sufficient.

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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