



# Ultramid® B3WG13 HPX BK00102

BASF Corporation - Polyamide 6

Monday, November 4, 2019

## General Information

### Product Description

Ultramid B3WG13 HPX BK00102 is a 63% glass reinforced, injection molding, high modulus nylon designed to have high strength and stiffness for metal replacement applications. It also has excellent moldability and outstanding surface appearance.

### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 63% Filler by Weight
Features	• Good Moldability • High Strength • High Stiffness • Oil Resistant • Pleasing Surface Appearance
Uses	• Metal Replacement
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.74	--	g/cm <sup>3</sup>	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	3.10E+6	2.13E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	32600	24500	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.0	3.4	%	ISO 527-2
Flexural Modulus (73°F)	3.05E+6	2.25E+6	psi	ISO 178
Flexural Stress (73°F)	55000	41300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	6.2	--	ft·lb/in <sup>2</sup>	
73°F	6.7	8.6	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179
-22°F	42	--	ft·lb/in <sup>2</sup>	
73°F	45	49	ft·lb/in <sup>2</sup>	
Notched Izod Impact Strength				ISO 180
-40°F	5.7	--	ft·lb/in <sup>2</sup>	
73°F	6.7	8.1	ft·lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	419	--	°F	
Melting Temperature (DSC)	428	--	°F	ISO 3146

## Processing Information

Injection	Dry Unit
Drying Temperature	176 °F

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Injection	Dry	Unit
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.12	%
Rear Temperature	527 to 572	°F
Middle Temperature	545 to 590	°F
Front Temperature	572 to 608	°F
Nozzle Temperature	572 to 608	°F
Processing (Melt) Temp	572 to 608	°F
Mold Temperature	176 to 203	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

### Notes

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