



Ultramid® B3WG5 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3WG5 BK00564 is a 25% glass fiber reinforced, pigmented black injection molding PA6 grade with heataging resistance.

Applications

Typical applications include fan wheels.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Features	• Heat Aging Resistant • Oil Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW3029P-PA6-GF25H Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) 275°C/5.0 kg	50	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.12E+6	--	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	21800	--	psi	ISO 527-2
Tensile Stress (Break, 73°F)	21800	--	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.3	--	%	ISO 527-2
Tensile Strain (Break, 73°F)	3.6	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength 73°F	3.3	--	ft·lb/in ²	ISO 179
Notched Izod Impact Strength -40°F	3.1	--	ft·lb/in ²	ISO 180
73°F	3.6	7.1	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed	410	--	°F	ISO 75-2/B
Heat Deflection Temperature 264 psi, Unannealed	392	--	°F	ISO 75-2/A
Melting Temperature (DSC)	428	--	°F	ISO 3146

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Processing Information

Injection	Dry	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.