



Ultramid® B3WG8 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3WG8 BK 00564 is a 40% glass reinforced, pigmented black, heat stabilized injection molding PA6 grade.

Applications

Typical applications include pedals/pedal module.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Oil Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WSS-M4D595-A2 Color: YGYA Black • GM GMW3029P-PA6-GF40H Color: Black • GM GMW3029P-PA6-GF40H Color: Natural
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.86E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	29000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.74E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	5.2	ft·lb/in ²	
73°F	6.7	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	40	ft·lb/in ²	
73°F	45	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180
-40°F	4.8	ft·lb/in ²	
73°F	5.7	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	410	°F	ISO 75-2/A
Melting Temperature (DSC)	428	°F	ISO 3146
CLTE - Flow	9.4E-6	in/in/°F	
CLTE - Transverse	4.3E-5	in/in/°F	

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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.