



Ultramid® B3WG6 GIT BK807

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3WG6 GIT BK807 is a 30% glass fiber reinforced, pigmented black, heat stabilized injection molding PA6 grade offering excellent flow characteristics and surface appearance and is paintable. Meets interior UV requirements.

Applications

Typical applications include power tools and interior door handles.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized • High Flow	• Oil Resistant • Paintable	• Pleasing Surface Appearance
Uses	• Handles	• Power/Other Tools	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM GMW15702-001113 PA6-GF30	• IMDS ID 149993348	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	6.6	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.36E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	25400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.23E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	3.3	ft·lb/in ²	
73°F	4.5	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	26	ft·lb/in ²	
73°F	31	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180
-22°F	3.3	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature (DSC)	428	°F	ISO 3146

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	500 to 1500	psi
Injection Rate	Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.