

Ultramid® B3WG6 GIT BK807

Polyamide 6

BASF Corporation

Message:

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

Applications

Typical applications include door handles, roof racks and power tools.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Flow		
	Oil Resistant		
	Paintable		
Uses	Handles		
	Power/Other Tools		
	Racks		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	6.6	%	
Equilibrium, 23°C, 50% RH	2.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9400	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	8500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	9.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	55	kJ/m ²	

23°C	65	kJ/m ²	
Notched Izod Impact Strength		ISO 180	
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	83.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	270 to 295	°C	
Mold Temperature	80.0 to 95.0	°C	
Injection Pressure	3.45 to 10.3	MPa	
Injection Rate	Fast		

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