

Ultramid® B3WG8 BK00564

Polyamide 6

BASF Corporation

Message:

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 Information			
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		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	12800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	12000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	11	kJ/m ²	
23°C	14	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	85	kJ/m ²	
23°C	95	kJ/m ²	
Notched Izod Impact Strength			ISO 180
-40°C	10	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
CLTE			

Flow	1.7E-5	cm/cm/°C
Transverse	7.8E-5	cm/cm/°C
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	3.50 to 12.5	MPa
Injection Rate	Fast	

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