

Ultramid® B3WG5 BK00564

Polyamide 6

BASF Corporation

Message:

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 Information				
UL YellowCard		E36632-531659	E41871-233702	
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Good Heat Aging Resistance		
		Oil Resistant		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	50.0	--	cm³/10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7700	--	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	150	--	MPa	
Break, 23°C	150	--	MPa	
Tensile Strain				ISO 527-2
Yield, 23°C	3.3	--	%	
Break, 23°C	3.6	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	--	kJ/m²	ISO 179
Notched Izod Impact Strength				ISO 180
-40°C	6.5	--	kJ/m²	
23°C	7.5	15	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Injection	Dry	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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