Ultramid® B3WG6 BK00564 BGVW

Polyamide 6

BASF Corporation

Message:

Ultramid B3WG6 BK00564 BGVW is a 30% glass fiber reinforced, pigmented black, heat stabilized injection molding PA6 grade.
Applications
Typical applications include automotive manifolds and pedals.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized Oil Resistant
Uses	Automotive Applications
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36	--	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	--	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.18 mm)	0.30	--	%	
Water Absorption				
Saturation	6.6	--	%	ASTM D570
Saturation, 23°C	6.6	--	%	ISO 62
Equilibrium, 50% RH	2.1	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.1	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9600	5600	MPa	ISO 527-2
Tensile Strength				
Break, 23°C	180	110	MPa	ASTM D638
Break, 23°C	180	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	6.0	%	ISO 527-2
Flexural Modulus (23°C)	8300	5000	MPa	ISO 178
Flexural Stress (23°C)	250	150	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179
-30°C	9.0	--	kJ/m²	
23°C	12	20	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	65	--	kJ/m²	
23°C	80	--	kJ/m²	
Notched Izod Impact				
-40°C	110	--	J/m	ASTM D256
23°C	150	260	J/m	ASTM D256
23°C	12	--	kJ/m²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	220	--	°C	ASTM D648
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ASTM D648
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418, 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			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT