

Ultramid® B3WG6 BK00564

Polyamide 6

BASF Corporation

Message:

Ultramid B3WG6 BK00564 is a 30% glass fiber reinforced, pigmented black, heat stabilized injection molding PA6 grade.

Applications

Typical applications include automotive manifolds and pedals.

General Information				
UL YellowCard		E36632-531660	E41871-233703	
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)	9500	6000	MPa	ISO 527-2
Tensile Strength				
Break, 23°C	180	110	MPa	ASTM D638
Break, 23°C	180	105	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
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179
-30°C	9.0	--	kJ/m ²	
23°C	12	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	65	--	kJ/m ²	
23°C	80	95	kJ/m ²	
Notched Izod Impact				
-40°C	110	--	J/m	ASTM D256
23°C	150	260	J/m	ASTM D256
23°C	12	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	220	--	°C	ASTM D648, 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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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