Ultramid® B3WG10 BK00564

Polyamide 6

BASF Corporation

Message:

This resin is a heat stabilized, 50% glass fiber reinforced PA6 injection molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. It is available in natural, black weather resistant and pigmented versions.
Applications
Ultramid B3WG10 BK00564 is generally recommended for applications such as power tool housings, cattle ear taggers, luggage frames, fans and pressure regulator housings.

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Good Dimensional Stability Heat Stabilized High Stiffness High Strength Oil Resistant
Uses	Housings Luggage Power/Other Tools
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black Colors Available Natural Color
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	4.8	%	
Equilibrium, 23°C, 50% RH	1.4	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	16700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	225	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	14500	MPa	ISO 178
Flexural Stress (23°C)	345	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	kJ/m^2	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	12	kJ/m^2	
23°C	15	kJ/m^2	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.060	%
Processing (Melt) Temp	280 to 305	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.45 to 10.3	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