Ultramid® B3WG10 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized • High Dimensional Stability	• High Heat Resistance • High Stiffness	• High Strength • Oil Resistant
Uses	• Housings • Luggage	• Molded Ear Tags • Power/Other Tools	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WSK-M4D674-A		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Water Absorption (Saturation, 73°F)	4.8	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.4	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	2.42E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	32600	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2
Flexural Modulus (73°F)	2.10E+6	psi	ISO 178
Flexural Stress (73°F)	50000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	7.1	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength (73°F)	43	ft·lb/in²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°F	5.7	ft·lb/in²	
73°F	7.1	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	428	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	419	°F	ISO 75-2/A

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Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	428	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.060	%
Processing (Melt) Temp	536 to 581	°F
Mold Temperature	176 to 203	°F
Injection Pressure	500 to 1500	psi
Injection Rate	Fast	

Notes

[1] Typical properties: these are not to be construed as specifications.

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