



Ultramid® B3WG6 GPX BK23238

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3WG6 GPX BK23238 is a 30% glass fiber reinforced, heat stabilized injection molding PA6 grade for primary use in welded air intake manifolds. This grade has been engineered to provide improved burst pressure strengths with excellent long-term burst strength retention.

Applications

Typical applications include automotive manifolds and other powertrain components.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • North America
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
Automotive Specifications	• GM GMW15702-110045 Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.39E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	26800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	%	ISO 527-2
Flexural Modulus (73°F)	1.20E+6	psi	ISO 178
Flexural Stress (73°F)	38400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength (73°F)	45	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	396	°F	ISO 75-2/A
Melting Temperature (DSC)	428	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	181	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	176 to 194	°F

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Injection	Nominal Value	Unit
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

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