Ultramid® B4WG7 BK-102

Polyamide 6

BASF Corporation

Message:

Ultramid B4WG7 BK-102 is a high viscosity grade of PA6 reinforced with 35% glass fiber offering high strength and stiffness as well as creep resistance. Excellent melt strength makes Ultramid B4WG7 BK102 ideally suited for extrusion and blow molding.
Applications
Ultramid B4WG7 BK-102 is designed for extruded and blow molded applications requiring enhanced mechanical and thermal properties. Potential applications including ducts, pipes, profiles and reservoirs.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight
Features	Rigidity, high High strength Good creep resistance Good melt strength Oil resistance Viscosity, High
Uses	Blow molding applications Piping system Profile
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS compliance
Appearance	Black
Forms	Particle
Processing Method	Blow molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	11500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	183	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	10100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m²	ISO 179
23°C	10	kJ/m²	ISO 179

Charpy Unnotched Impact Strength (23°C)	72	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	203	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	**Nominal Value**	**Unit**	
Drying Temperature	83	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.060	%	
Rear Temperature	265 - 282	°C	
Middle Temperature	260 - 277	°C	
Front Temperature	254 - 271	°C	
Nozzle Temperature	265 - 277	°C	
Processing (Melt) Temp	254 - 271	°C	

Recommended distributors for this material

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