

Ultramid® Structure B3WG12 LFX BK23215

Polyamide 6

BASF Corporation

Message:

Ultramid Structure B3WG12 LFX BK23215 is a 60% long glass-fiber fiber reinforced and heat aging resistant injection molding grade designed for applications requiring excellent strength and stiffness.

General Information				
Filler / Reinforcement		Long glass fiber, 60% filler by weight		
Features		Rigidity, high		
		High strength		
		Good heat aging resistance		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.71	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.54	--	%	ISO 294-4
Flow	0.24	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	20800	14200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	260	170	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	2.4	%	ISO 527-2
Flexural Modulus (23°C)	19500	14700	MPa	ISO 178
Flexural Stress (23°C)	410	280	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	42	41	kJ/m ²	ISO 179
23°C	41	36	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C	91	83	kJ/m ²	ISO 179
23°C	92	88	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	--	°C	ISO 75-2/A

Melting Temperature (DSC)	220	--	°C	ISO 3146
Injection	Dry	Unit		
Drying Temperature	83		°C	
Drying Time	2.0 - 4.0		hr	
Suggested Max Moisture	0.12		%	
Processing (Melt) Temp	280 - 310		°C	
Mold Temperature	80 - 100		°C	
Injection Pressure	3.50 - 12.5		MPa	
Injection Rate	Fast			

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