

General Information**Product Description**

Glass Fiber Reinforced (High Flowability & High Stiffness), GF20%

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• High Flow	• High Rigidity	• High Stiffness
Uses	• General Purpose		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.30 to 0.50	%	
Flow	0.10 to 0.30	%	
Water Absorption (Saturation, 23°C)	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ISO 527-1/1
Tensile Stress (Break)	121	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ²	6600	MPa	ISO 178
Flexural Stress ²	178	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	57	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	141	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	280 to 310	°C
Middle Temperature	280 to 310	°C



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Injection	Nominal Value	Unit
Front Temperature	280 to 310	°C
Nozzle Temperature	280 to 310	°C
Mold Temperature	80 to 120	°C

