

RheTech Polypropylene GC20P100-00UV

Polypropylene

RheTech, Inc.

Message:

20% Glass Fiber Reinforced, Chemically Coupled, UV Stabilized, Polypropylene, Natural.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	UV stabilizer		
Features	Chemical coupling Good UV resistance		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	71.7	MPa	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256
Dart Drop Impact	0.452	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	141	°C	ASTM D648
Injection	Nominal Value	Unit	Test Method
Drying Temperature	65.6 - 82.2	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	199 - 227	°C	
Middle Temperature	204 - 232	°C	
Front Temperature	210 - 238	°C	
Nozzle Temperature	216 - 227	°C	
Mold Temperature	26.7 - 48.9	°C	
Injection Pressure	2.76 - 10.3	MPa	

Holding Pressure	2.07 - 8.27	MPa
Back Pressure	0.345 - 1.03	MPa

Injection instructions

Injection Speed: Variable - Application Dependant
Screw RPM: Recovery 3 seconds before mold opens
Cycle Time: Wall Thickness Dependant

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Recommended distributors for this material

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