Polifil® PP GFRMPPCC-20

Polypropylene Impact Copolymer

The Plastics Group

Message:

Polifil® GFRMPPCC series compounds are high impact polypropylenes reinforced with chemically coupled glass fibers. This combination provides higher impact strength while retaining high stiffness. These compounds are used in appliances, electrical components, automotive, and utility products. Standard processing techniques are applicable. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations for your application.

General Information				
Filler / Reinforcement	Glass Fiber,20% Filler by Weight			
Features	Chemically Coupled			
	Good Stiffness			
	High Impact Resistance			
	Impact Copolymer			
Uses	Appliances			
	Automotive Applications			
	Electrical Parts			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.04	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	4.0 to 10	g/10 min	ASTM D1238	
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	88		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (23°C)	2620	MPa	ASTM D638	
Tensile Strength (23°C)	55.8	MPa	ASTM D638	
Tensile Elongation			ASTM D638	
Yield, 23°C	4.0	%		
Break, 23°C	5.0	%		
Flexural Modulus - Tangent (23°C)	2900	MPa	ASTM D790	
Flexural Strength (23°C)	64.1	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	160	J/m	ASTM D256	
Gardner Impact (23°C, 12.7 mm)	1.13	J	ASTM D3029	
Thermal	Nominal Value	Unit	Test Method	

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	135	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 104	°C	
Drying Time	1.0 to 2.0	hr	
Rear Temperature	210 to 221	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	227 to 238	°C	
Nozzle Temperature	227 to 249	°C	
Processing (Melt) Temp	232 to 260	°C	
Mold Temperature	48.9 to 65.6	°C	
Injection Rate	Fast		
Back Pressure	0.172 to 0.517	MPa	
Screw Speed	30 to 60	rpm	

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