Polifil® PP GFRMPPCC-10

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,10% 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	0.978	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)	0.60	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1930	MPa	ASTM D638
Tensile Strength (23°C)	41.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	7.0	%	
Flexural Modulus - Tangent (23°C)	2140	MPa	ASTM D790
Flexural Strength (23°C)	49.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Gardner Impact (23°C, 12.7 mm)	1.36	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	132	°C	
1.8 MPa, Unannealed	121	°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

Recommended distributors for this material

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