Polifil® PP GFPPCC-10

Polypropylene Homopolymer

The Plastics Group

Message:

Polifil® GFPPCC series compounds are homopolymer polypropylenes reinforced with chemically coupled glass fibers. These compounds offer superior strength and stiffness, improved elevated temperature performance, better creep resistance, higher impact strength, and higher resistance to high temperature water than conventional glass fiber reinforced polypropylenes. These compounds are used in chemical resistance applications, appliances, electrical components, automotive, irrigation 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					
UL YellowCard	E84888-251659				
Filler / Reinforcement	Glass Fiber, 10% Filler by Weight				
Features	Chemically Coupled				
	Good Chemical Resistance				
	Good Creep Resistance				
	Good Stiffness				
	High Impact Resistance				
	High Strength				
	Homopolymer				
Uses	Appliances				
	Automotive Applications				
	Electrical Parts				
	Irrigation Applications				
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)	85		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (23°C)	2280	МРа	ASTM D638		
Tensile Strength (23°C)	53.8	МРа	ASTM D638		
Tensile Elongation			ASTM D638		
Yield, 23°C	3.0	%			
Break, 23°C	6.0	%			
Flexural Modulus - Tangent (23°C)	2690	MPa	ASTM D790		

Flexural Strength (23°C)	65.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Gardner Impact (23°C, 12.7 mm)	0.904	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	141	°C	
1.8 MPa, Unannealed	124	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

