Polifil® PP RMC-10

Polypropylene Impact Copolymer

The Plastics Group

Message:

Polifil® RMC series compounds are high impact polypropylenes reinforced with fine particle size calcium carbonate. In addition to high impact strength, they possess good stiffness, heat aging resistance, solvent resistance, surface quality, and good resistance to environmental stress-cracking. These compounds find applications in automotive, appliances, electrical components, housewares, and various 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	Calcium Carbonate,10% Filler by Weight		
Features	Good Heat Aging Resistance Good Stiffness Good Surface Finish High ESCR (Stress Crack Resist.) High Impact Resistance Impact Copolymer Solvent Resistant		
Uses	Appliances Automotive Applications Electrical Parts Household Goods		
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)	8.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.4	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	68		ASTM D1415
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1170	MPa	ASTM D638
Tensile Strength (23°C)	24.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	9.0	%	
Break, 23°C	100	%	
Flexural Modulus - Tangent (23°C)	1310	MPa	ASTM D790
Flexural Strength (23°C)	29.0	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)	6.78	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	85.0	°C	
1.8 MPa, Unannealed	46.1	°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2 to 104	°C	
Drying Time	1.0 to 2.0	hr	
Rear Temperature	199 to 210	°C	
Middle Temperature	210 to 221	°C	
Front Temperature	221 to 232	°C	
Nozzle Temperature	227 to 232	°C	
Processing (Melt) Temp	204 to 260	°C	
Mold Temperature	10.0 to 26.7	°C	
Injection Rate	Fast		
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 100	rpm	

Recommended distributors for this material

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