



Polifil® RMC

High Impact Calcium Carbonate Reinforced Polypropylene

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.

Physical Property Data Sheet

PHYSICAL	ASTM / Method	Units	Polifil® RMC-10	Polifil® RMC-20	Polifil® RMC-30	Polifil® RMC-40
Reinforcement Content	TPG WI	%	10	20	30	40
Specific Gravity	D 792	-	0.98	1.05	1.15	1.24
Melt Flow (230/2.16)	D 1238	g/10 min	8-12*	8-12*	8-12*	8-12*
Water Absorption, 24 Hours	D 570	%	nil	nil	nil	nil
Mold Shrinkage – 1/8" Specimen	D 955	in/in	0.014	0.013	0.012	0.011

MECHANICAL @ 73°F

Tensile Strength	D 638	psi	3,600	3,700	3,600	3,500
Elongation @ Yield	D 638	%	9.0	7.0	5.0	5.0
Elongation @ Break	D 638	%	100	100	80	40
Tensile Modulus	D 638	kpsi	170	210	240	260
Flexural Modulus (tangent)	D 790	kpsi	190	230	260	300
Flexural Strength	D 790	psi	4,200	4,800	5,600	6,000
Izod Impact (notched)	D 256	ft-lbs/in	1.2	1.3	1.3	1.2
Gardner Impact (1/2" tup)	D 5420	in-lbs	60	80	120	120
Hardness Shore	D 1415	D Scale	68	70	72	73

THERMAL

Deflection Temperature, 66psi	D 648	°F	185	200	220	230
Deflection Temperature, 264psi	D 648	°F	115	125	130	135

*melt flow may be specified

An ISO 9001:2000 Certified Company

The test results and property values listed have been obtained using laboratory-controlled test results. They are offered without guarantee since conditions under which our product is used are beyond our control. Mold shrinkage is intended as a guide only, as specific shrinkage is affected by part design, mold design, and molding conditions. Polifil®, therefore, disclaims any liability for loss or damage incurred in connection with product's use.

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