



# POLIFIL® RMC DATA SHEET

DOING THE NEEDFUL SINCE 1973

## High Impact Calcium Carbonate-Reinforced Polypropylene

**Polifil® RMC** series compounds are high impact polypropylenes reinforced with fine particle size calcium carbonate. In addition to the highest impact possible, 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.

<b>PHYSICAL</b>	<b>ASTM/ Method</b>	<b>Polifil® RMC-10</b>	<b>Polifil® RMC-20</b>	<b>Polifil® RMC-30</b>	<b>Polifil® RMC-40</b>
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 (g/10 min)	D 1238	8-12*	8-12*	8-12*	8-12*
Water absorption, 24 hours (%)	D 570	nil	nil	nil	nil
Mold shrinkage – 1/8" specimen (in/in)	D 955	0.014	0.013	0.012	0.011

### MECHANICAL @ 73°F

Tensile strength (psi)	D 638	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 (kpsi)	D 638	170	210	240	260
Flexural modulus, tangent (kpsi)	D 790	190	230	260	300
Flexural strength (psi)	D 790	4,200	4,800	5,600	6,000
Izod impact, notched (ft-lbs/in)	D 256	1.2	1.3	1.3	1.2
Gardner impact, 1/2" tup (in-lbs)	D 5420	60	80	120	120
Hardness, shore (D-scale)	D 1415	68	70	72	73

### THERMAL

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

*\*melt flow may be specified*

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the 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. Therefore, The Plastics Group disclaims any liability for loss or damage incurred in connection with the use of this product.

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