



POLIFIL® RMT DATA SHEET

DOING THE NEEDFUL SINCE 1973

High Impact Talc-Reinforced Polypropylene

Polifil® RMT series compounds are high impact polypropylenes reinforced with asbestos-free talc. In addition to high impact strength, they possess a high flex modulus and high heat deflection resistance. Polifil® RMT products are UL94 HB rated. These compounds are used in automotive applications and conform to the requirements of the FMVSS-302. 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	ASTM/ Method	Polifil® RMT-10	Polifil® RMT-20	Polifil® RMT-30	Polifil® RMT-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 (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	0.012	0.010	0.009

MECHANICAL @ 73°F

Tensile strength (psi)	D 638	4,300	4,100	3,900	3,800
Elongation @ yield (%)	D 638	10	9	8	6
Elongation @ break (%)	D 638	45	35	25	18
Tensile modulus (kpsi)	D 638	190	250	300	340
Flexural modulus, tangent (kpsi)	D 790	210	255	310	360
Flexural strength (psi)	D 790	5,500	6,000	6,200	6,500
Izod impact, notched (ft-lbs/in)	D 256	1.1	0.9	0.8	0.8
Gardner impact, 1/2" tup (in-lbs)	D 5420	49	46	43	40
Hardness, shore (D-scale)	D 1415	70	72	72	74

THERMAL

Deflection temperature, 66psi (°F)	D 648	220	230	240	245
Deflection temperature, 264psi (°F)	D 648	125	130	140	145
Flammability** (Rating)	UL94	HB	HB	HB	HB

*melt flow may be specified

** TPG UL File# E84888. This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

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.

The Plastics Group of America

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