



# 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 Plastics Group of America

