



We deliver innovation in the form of high quality plastic resins

Polifil® RMT

High Impact Talc Reinforced Polypropylene

Polifil® RMT series compounds are high impact polypropylenes reinforced with appearance-grade talc. In addition to high impact strength, they possess a high flex modulus and high heat deflection resistance. These compounds are used in automotive applications, major appliances, electrical goods, housewares, and other 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® 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)	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	0.012	0.010	0.009

MECHANICAL @ 73°F

Tensile Strength	D 638	psi	4,275	4,100	3,875	3,750
Elongation @ Yield	D 638	%	10	9	8	6
Elongation @ Break	D 638	%	50	35	25	18
Tensile Modulus	D 638	kpsi	190	250	300	340
Flexural Modulus (tangent)	D 790	kpsi	210	255	310	360
Flexural Strength	D 790	psi	4,500	5,700	6,400	6,700
Izod Impact (notched)	D 256	ft-lbs/in	1.3	1.1	1.1	1.0
Gardner Impact (1/2" tup)	D 5420	in-lbs	49	46	43	40
Hardness Shore	D 1415	D Scale	70	72	72	74

THERMAL

Deflection Temperature, 66psi	D 648	°F	220	230	240	245
Deflection Temperature, 264psi	D 648	°F	125	130	140	145

*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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