

**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.

<b>PHYSICAL</b>	<b>ASTM / Method</b>	<b>Units</b>	<b>Polifil® T-10</b>	<b>Polifil® T-20</b>	<b>Polifil® T-30</b>	<b>Polifil® T-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)	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
<b>MECHANICAL @ 73°F</b>						
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
<b>THERMAL</b>						
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*



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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.