

**TALC REINFORCED POLYPROPYLENE**

**Polifil® T** series compounds are homopolymer polypropylene resins reinforced with appearance-grade talc. They possess high flex modulus, high deflection temperature, good chemical resistance, and colorability, low shrinkage, and yield maximum stiffness combined with characteristic impact. These compounds are used in automotive applications, major appliances, electrical goods, and 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	0.015	0.010	0.009	0.008
<b>MECHANICAL @ 73°F</b>						
Tensile Strength	D 638	psi	4,900	4,900	4,750	4,600
Elongation @ Yield	D 638	%	7.0	6.0	5.0	3.5
Elongation @ Break	D 638	%	20	16	14	10
Tensile Modulus	D 638	kpsi	240	280	330	380
Flexural Modulus (tangent)	D 790	kpsi	270	300	350	400
Flexural Strength	D 790	psi	5,800	6,500	7,000	8,000
Izod Impact (notched)	D 256	ft-lbs/in	0.60	0.55	0.50	0.50
Gardner Impact (1/2" tup)	D 5420	in-lbs	12	8	5	5
Hardness, Shore	D 1415	D-Scale	72	74	75	77
<b>THERMAL</b>						
Deflection Temperature, 66psi	D 648	°F	235	255	270	280
Deflection Temperature, 264psi	D 648	°F	135	145	160	175

*\*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.