



# POLIFIL® T DATA SHEET

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## Talc-Reinforced Polypropylene

Polifil® T series compounds are homopolymer polypropylene resins reinforced with asbestos-free talc. They possess high flex modulus, high deflection temperature, good chemical resistance and colorability, low shrinkage and yield maximum stiffness combined with characteristic impact. Polifil® T products are UL94 HB rated. These compounds are used in automotive (underhood) applications, major appliances, electrical goods, housewares and other utility products. Standard processing techniques are applicable.

PHYSICAL	ASTM/ Method	Polifil® T-10	Polifil® T-20	Polifil® T-30	Polifil® T-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	0.015	0.010	0.009	0.008

### MECHANICAL @ 73°F

Tensile strength (psi)	D 638	4,900	4,900	4,750	4,600
Elongation @ yield (%)	D 638	7.0	6.0	5.0	3.5
Elongation @ break (%)	D 638	22	17	16	15
Tensile modulus (kpsi)	D 638	240	280	330	380
Flexural modulus, tangent (kpsi)	D 790	270	300	350	400
Flexural strength (psi)	D 790	7,000	7,300	7,500	8,000
Izod impact, notched (ft-lbs/in)	D 256	0.60	0.55	0.50	0.50
Gardner impact, 1/2" tup (in-lbs)	D 5420	12	8	5	5
Hardness, shore (D-scale)	D 1415	72	74	75	77

### THERMAL

Deflection temperature, 66psi (°F)	D 648	235	255	270	280
Deflection temperature, 264psi (°F)	D 648	135	145	160	175
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

