

GLASS & MINERAL REINFORCED NYLON 6

Polifil® GFN/MRN 6 reinforced series of compounds provide good heat and dimensional stability. These have been found useful in industrial clamp components as well as bearings. 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	Units	Polifil® 930L- 13GF	Polifil® 930L- 33GF	Polifil® 89MRG- FHS	Polifil® 82MR
Reinforcement Content	TPG WI	%	13	33	40	40
Specific Gravity	D 792	-	1.21	1.36	1.48	1.45
Melt Flow	D 1238	g/10 min	n/a	n/a	n/a	n/a
Water Absorption, 24 Hours	D 570	%	1.4	1.1	0.09	0.9
Mold Shrinkage – 1/8” Specimen	D 955	in/in	0.005	0.003	0.004	0.006
MECHANICAL @ 73°F*						
Tensile Strength	D 638	psi	16,000	23,000	17,000	12,000
Elongation @ Yield	D 638	%	2.0	2.0	2.0	3.0
Elongation @ Break	D 638	%	3.0	3.0	3.0	6.0
Tensile Modulus	D 638	kpsi	900	1,350	1,000	800
Flexural Modulus (tangent)	D 790	kpsi	750	1,200	950	750
Flexural Strength	D 790	psi	23,000	30,000	24,000	19,000
Izod Impact (notched)	D 256	ft-lbs/in	1.0	2.0	1.8	0.9
Gardner Impact (1/2” tup)	D 5420	in-lbs	6	4	6	12
Rockwell Hardness	D 785	R-Scale	119	119	121	114
THERMAL						
Deflection Temperature, 66psi	D 648	°F	420	420	420	400
Deflection Temperature, 264psi	D 648	°F	390	410	390	248

**all properties tested dry as molded*



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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.