



POLIFIL® NYLON 6 DATA SHEET

DOING THE NEEDFUL SINCE 1973

NYLON 6 Resins

Polifil® NYLON 6 provides superior strength and rigidity with electrical resistance and surface lubricity. These properties have been proven to work in the following applications: automotive, housings, bearings as well as appliances. 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	Polifil® 930L	Polifil® 836L
Reinforcement content (%)	TPG WI	0	0
Specific gravity	D 792	1.13	1.09
Melt flow (g/10 min)	D 1238	n/a	n/a
Water absorption, 24 hours (%)	D 570	1.6	1.3
Mold shrinkage – 1/8" specimen (in/in)	D 955	0.012	0.012

MECHANICAL @ 73°F*

Tensile strength (psi)	D 638	11,500	9,400
Elongation @ yield (%)	D 638	8	9
Elongation @ break (%)	D 638	40	60
Tensile modulus (kpsi)	D 638	440	360
Flexural modulus, tangent (kpsi)	D 790	390	320
Flexural strength (psi)	D 790	15,000	12,000
Izod impact, notched (ft-lbs/in)	D 256	1.1	2.5
Gardner impact, 1/2" tup (in-lbs)	D 5420	12	100
Rockwell hardness (R-scale)	D 785	116	108

THERMAL

Deflection temperature, 66psi (°F)	D 648	360	300
Deflection temperature, 264psi (°F)	D 648	145	140

*all properties tested dry as molded

The Plastics Group of America

