



POLIFIL® RP-PP DATA SHEET

DOING THE NEEDFUL SINCE 1973

Reprocessed Polypropylene

Polifil® RP-PP reprocessed polypropylene has the highest stiffness of the commodity olefin resins, while retaining sufficient impact properties for many applications. Due to its low cost and low density, polypropylene use has been expanding rapidly, and common uses now include injection molded articles, fibers, packaging films, and extruded sheet and profiles. Polypropylene is widely used in injection molding for housewares, appliances, and automotive parts. High flow grades are spun into fibers, and molded into thin wall containers, cups, and lids. Moderate flow resins are common in general injection molding and cast films. High molecular weight, low flow grades are extruded into sheet and profiles, and blow molded into automotive parts and recreational goods.

PHYSICAL	ASTM/ Method	Polifil® RP-PP
Reinforcement content (%)	TPG WI	-
Specific gravity	D 792	0.90
Melt flow 230/2.16 (g/10 min)	D 1238	15*
Water absorption, 24 hours (%)	D 570	nil
Mold shrinkage – 1/8" specimen (in/in)	D 955	0.020

MECHANICAL @ 73°F

Tensile strength (psi)	D 638	4,500
Elongation @ yield (%)	D 638	11
Elongation @ break (%)	D 638	50
Tensile modulus (kpsi)	D 638	200
Flexural modulus, tangent (kpsi)	D 790	180
Flexural strength (psi)	D 790	6,000
Izod impact, notched (ft-lbs/in)	D 256	0.50
Gardner impact, 1/2" tup (in-lbs)	D 5420	24
Hardness, shore (D-scale)	D 1415	70

THERMAL

Deflection temperature, 66psi (°F)	D 648	200
Deflection temperature, 264psi (°F)	D 648	120

*melt flow may be specified

The Plastics Group of America

