

**REPROCESSED POLYPROPYLENE**

**Polifil® RP-PP** has the highest stiffness of the commodity olefin resins, while retaining sufficient impact properties for many applications. Polypropylene is widely used in injection molding for housewares, appliances, and automotive parts. 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® RP-PP</b>
Reinforcement Content	TPG WI	%	
Specific Gravity	D 792	-	0.90
Melt Flow (230/2.16)	D 1238	g/10 min	15*
Water Absorption, 24 Hours	D 570	%	nil
Mold Shrinkage – 1/8” Specimen	D 955	in/in	0.020
<b>MECHANICAL @ 73°F</b>			
Tensile Strength	D 638	psi	4500
Elongation @ Yield	D 638	%	11
Elongation @ Break	D 638	%	50
Tensile Modulus	D 638	kpsi	200
Flexural Modulus (tangent)	D 790	kpsi	180
Flexural Strength	D 790	psi	6000
Izod Impact (notched)	D 256	ft-lbs/in	0.50
Gardner Impact (1/2” tup)	D 5420	in-lbs	24
Hardness, Shore	D 1415	D-Scale	70
<b>THERMAL</b>			
Deflection Temperature, 66psi	D 648	°F	200
Deflection Temperature, 264psi	D 648	°F	120

*\*melt flow may be specified*

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.



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