

**REPROCESSED LOW DENSITY POLYETHYLENE**

**Polifil® RP-LDPE** is a soft, tough material with high chemical resistance. LDPE remains flexible and retains impact strength at very low temperatures. High melt flow (low viscosity) grades are injection molded into products such as containers and lids. Low melt flow (high viscosity) grades are used in blown films for bags and construction, extruded sheeting and pipe, and lawn edging. 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-LDPE</b>
Reinforcement Content	TPG WI	%	
Specific Gravity	D 792	-	0.92
Melt Flow (190/2.16)	D 1238	g/10 min	1.0*
Water Absorption, 24 Hours	D 570	%	nil
Mold Shrinkage – 1/8" Specimen	D 955	in/in	0.030
<b>MECHANICAL @ 73°F</b>			
Tensile Strength	D 638	psi	1700
Elongation @ Yield	D 638	%	15
Elongation @ Break	D 638	%	>300
Tensile Modulus	D 638	kpsi	24
Flexural Modulus (tangent)	D 790	kpsi	30
Flexural Strength	D 790	psi	1400
Izod Impact (notched)	D 256	ft-lbs/in	no break
Gardner Impact (1/2" tup)	D 5420	in-lbs	>200
Hardness, Shore	D 1415	D-Scale	52
<b>THERMAL</b>			
Deflection Temperature, 66psi	D 648	°F	160
Deflection Temperature, 264psi	D 648	°F	

*\*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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