

REPROCESSED HIGH DENSITY POLYETHYLENE

Polifil® RP-HDPE is a moderate stiffness material that retains excellent toughness. HDPE exhibits outstanding chemical resistance and environmental stress crack resistance. Injection molding applications range from small containers and lids to large crates and bins. 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® RP-HDPE
Reinforcement Content	TPG WI	%	
Specific Gravity	D 792	-	0.96
Melt Flow (190/2.16)	D 1238	g/10 min	0.1-5*
Water Absorption, 24 Hours	D 570	%	nil
Mold Shrinkage – 1/8” Specimen	D 955	in/in	0.028
MECHANICAL @ 73°F			
Tensile Strength	D 638	psi	3500
Elongation @ Yield	D 638	%	12
Elongation @ Break	D 638	%	>200
Tensile Modulus	D 638	kpsi	170
Flexural Modulus (tangent)	D 790	kpsi	150
Flexural Strength	D 790	psi	4000
Izod Impact (notched)	D 256	ft-lbs/in	1.6
Gardner Impact (1/2” tup)	D 5420	in-lbs	>200
Hardness, Shore	D 1415	D-Scale	64
THERMAL			
Deflection Temperature, 66psi	D 648	°F	160
Deflection Temperature, 264psi	D 648	°F	90

*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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