

REPROCESSED ACRYLONITRILE-BUTADIENE STYRENE

Polifil® RP-ABS is a styrenic resin with improved toughness and heat resistance versus HIPS grades. ABS exhibits high gloss, low shrinkage, and good dimensional stability. ABS is widely used in injection molding of appliances, furniture, and automotive parts. ABS also has high melt strength suitable for the production of extruded sheet, some of considerable size and thickness. Applications include panels for large appliances and thermoformed items such as hot tubs and recreational vehicle 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.

PHYSICAL	ASTM / Method	Units	Polifil® RP-ABS
Reinforcement Content	TPG WI	%	
Specific Gravity	D 792	-	1.05
Melt Flow (230/3.8)	D 1238	g/10 min	2-10*
Water Absorption, 24 Hours	D 570	%	0.2
Mold Shrinkage – 1/8” Specimen	D 955	in/in	0.005
MECHANICAL @ 73°F			
Tensile Strength	D 638	psi	6400
Elongation @ Yield	D 638	%	4
Elongation @ Break	D 638	%	20
Tensile Modulus	D 638	kpsi	290
Flexural Modulus (tangent)	D 790	kpsi	360
Flexural Strength	D 790	psi	9500
Izod Impact (notched)	D 256	ft-lbs/in	3.5
Gardner Impact (1/2” tup)	D 5420	in-lbs	100
Rockwell Hardness	D 785	R-Scale	98
THERMAL			
Deflection Temperature, 66psi	D 648	°F	205
Deflection Temperature, 264psi	D 648	°F	195

**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.



An ISO 9001 CERTIFIED COMPANY