



# POLIFIL® RP-ABS DATA SHEET

DOING THE NEEDFUL SINCE 1973

## 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.

PHYSICAL	ASTM/ Method	Polifil® RP-ABS
Reinforcement content (%)	TPG WI	-
Specific gravity	D 792	1.05
Melt flow 230/3.8 (g/10 min)	D 1238	2-10*
Water absorption, 24 hours (%)	D 570	0.2
Mold shrinkage – 1/8" specimen (in/in)	D 955	0.005

### MECHANICAL @ 73°F

Tensile strength (psi)	D 638	6,400
Elongation @ yield (%)	D 638	4
Elongation @ break (%)	D 638	20
Tensile modulus (kpsi)	D 638	290
Flexural modulus, tangent (kpsi)	D 790	360
Flexural strength (psi)	D 790	9,500
Izod impact, notched (ft-lbs/in)	D 256	3.5
Gardner impact, 1/2" tup (in-lbs)	D 5420	100
Rockwell hardness (R-scale)	D 785	98

### THERMAL

Deflection temperature, 66psi (°F)	D 648	205
Deflection temperature, 264psi (°F)	D 648	195

\*melt flow may be specified

The Plastics Group of America

