

Plastics Group Polifil® RP-HIPS High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Polifil® RP-High Impact Polystyrene (HIPS) combines the good stiffness properties of polystyrene, with enhanced impact properties gained by the addition of impact modifiers, usually butadiene rubber. An amorphous resin, HIPS has low post-molding shrinkage, good melt strength, and a wide melt processing window, making the resin ideal for many sheet and thermoforming applications. Injection molding applications include cutlery, appliance parts, and furniture components. Sheet extrusion applications include thermoformed plates, cups, and trays. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-RP-HIPS-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Water Absorption	0.00 %	0.00 %	24 hours; ASTM D570
Melt Flow	4.0 - 12 g/10 min	4.0 - 12 g/10 min	200/5; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	1% Secant; ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	96.1 °C	205 °F	ASTM D648

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