

Injection Molding

Applications

- Cutlery
- Appliance parts
- Furniture components
- Thermoformed plates, cups and trays

Description

HIPS REPRO 3-5 Black 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.

Property	Value	Unit	Method
Specific Gravity	1.05		D 792
Melt Flow 200/5.0	3-8	g/10 min	D 1238
Water Absorption, 24 hours	<0.1	%	D 570
Mold Shrinkage – 1/8 specimen	0.005	in/in	D 955
Tensile Strength	3,600	psi	D 638
Elongation at Yield	5	%	D 638
Elongation at Break	20	%	D 638
Tensile Modulus	260	kpsi	D 638
Flexural modulus	310	kpsi	D 790
Flexural Strength	7200	psi	D 790
Izod Impact, Notched	2.0	ft-lbs/in	D 256
Gardner Impact	60	in-lbs	D 5420
Rockwell Hardness (R-scale)	92		D 785
Deflection Temperature	195	°F	D 648

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility. User must make their own decisions regarding its suitability for their equipment and final products.

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