

Star HIPS 8

Polystyrene - Impact



Overview

The high impact polystyrene for injection molding. This easy processing grade allows fast cycle times with minimal post stress resulting in outstanding impact retention. Advanced rubber particle size control makes this polymer the choice for all high gloss applications.

General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- This material holds Underwriters Laboratory recognition 94HB; see UL File E55470 at www.UL.com.
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

Applications

- Appliance housings
- Housewares and toys
- Structural foam
- Refrigeration applications

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	8.0	g/10 min	D 1238
Density (g/cm ³)	1.040	g/cm ³	D 792
Falling Dart	110	in-lb	D3029
Izod - notched	2.0	ft-lbs/in	D256
Tensile Strength	3,600	psi	D638
Tensile Modulus	3.3	psi (10 ⁵)	D638
Elongation	45	%	D638
Flexural Strength	6,500	psi	D790
Flexural Modulus	3.4	psi (10 ¹⁰)	D790

Property	Value	Unit	ASTM
Heat Distortion - Annealed	193	°F	D648
Vicat Softening	205	°F	D1525
Gloss	90	60°	D523
Linear Shrinkage	.004 - .007	in/in	D955
Moisture	<0.1	%	