

Star HIPS 13

Polystyrene - Impact



Overview

A high melt flow, high impact polystyrene specially designed for hard to fill injection molding applications. The material is targeted for large parts, thin wall parts, or molds with complex runner and gate systems. The high flow 830 material aids production of stress free parts.

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

- Thin wall injection molding
- Textile spools
- Medical applications
- Excellent color concentrate carrier resin

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	13.0	g/10 min	D 1238
Density (g/cm ³)	1.040	g/cm ³	D 792
Falling Dart	120	in-lb	D3029
Izod - notched	2.1	ft-lbs/in	D256
Tensile Strength	3,300	psi	D638
Tensile Modulus	3.2	psi (10 ⁵)	D638
Elongation	45	%	D638
Flexural Strength	5,700	psi	D790
Flexural Modulus	3	psi (10 ¹⁰)	D790
Heat Distortion - Annealed	189	°F	D648

Property	Value	Unit	ASTM
Vicat Softening	200	°F	D1525
Gloss	94	60°	D523
Linear Shrinkage	.004 - .007	in/in	D955
Moisture	<0.1	%	