

Star HIPS 3

Polystyrene - Impact



Overview

Designed specifically for extrusion/thermoforming. The polymer's balanced properties and processing characteristics make it especially suitable for industrial packaging deep draw thermoforming and custom multilayer sheet extrusion. Over the years, this popular resin has established itself as the industry standard extrusion grade high impact polystyrene.

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

- Custom sheet extrusion
- Extrusion thermoforming
- Packaging applications
- Form – Fill – Seal applications

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	3.0	g/10 min	D 1238
Density (g/cm ³)	1.040	g/cm ³	D 792
Falling Dart	110	in-lb	D3029
Izod - notched	2.3	ft-lbs/in	D256
Tensile Strength	3,600	psi	D638
Tensile Modulus	3.0	psi (10 ⁵)	D638
Elongation	50	%	D638
Flexural Strength	6,900	psi	D790
Flexural Modulus	3.2	psi (10 ¹⁰)	D790

Property	Value	Unit	ASTM
Heat Distortion - Annealed	202	°F	D648
Vicat Softening	215	°F	D1525
Gloss	70	60°	D523
Linear Shrinkage	.004 - .007	in/in	D955
Moisture	<0.1	%	