

TECHNICAL DATA SHEET

H.I.P.S. (High Impact Poly Styrene)

Sheet Only. Colour: White & Black PLUS Colours

Description

High impact polystyrene 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.

Applications

Custom sheet extrusion, extrusion thermoforming, printing, and packaging

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.
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

Properties

Rheological Properties	ASTM Test	Unit	Typical Value
Melt Flow (200°C-5kg)	D-1238	g/10mn	3.0
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	202
Vicat Softening	D-1525	°F	215
Impact Properties			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.3
Tensile Properties			
Strength	D-638	psi	3,600
Modulus	D-638	psi (10 ⁵)	3.0
Elongation	D-638	%	50
Flexural Properties			
Strength	D-790	psi	6,900
Modulus	D-790	psi (10 ⁵)	3.2
Other Properties			
Gloss	D-523	60°	70
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

Please Note: The above Technical Data Sheet is a general guide to the physical properties of the material. This information is given without Warranty or Liability. It is the customer's responsibility to determine if this product is suitable for the application.