



HIPS

High impact Polystyrene

Description

HIPS is a co-extruded plastic product making it perfect for thermo-forming. It is often used in the packaging and screen-printing industries and is usually very cost-effective.

Due to its good impact strength and excellent printability using special inks for HIPS, it is frequently used in the signage and display markets for shelf-talkers, plant tags, and various formed items. In addition can be sawn, cut, drilled and guillotined using the usual methods for plastic.

Uses

- Vacuum formed trays
- Models and Prototypes
- Fabricated parts or components
- Thermoformed parts
- Shelves

Basic info

- ✓ Extremely thermoformable
- ✓ High impact Strength
- ✓ Good machinability
- ✓ Easy to Paint, Glue and print





Technical Data

Availability

Colour	Gauge mm	Sheet size mm
Black / White	0.75	1370 x 760
	1.00	
	1.50	
	2.00	
	3.00	



Technical Properties

Property	Standard	Result
Physical		
Density (g/cm ³)	D792	1.04
Water Absorption, 24 hrs (%)	D570	0.01
Mechanical		
Tensile Strength (psi)	D638	4,000
Tensile Modulus (psi)	D638	260,000
Tensile Elongation at Break (%)	D638	55
Flexural Strength (psi)	D790	8,700
Flexural Modulus (psi)	D790	280,000
Compressive Strength (psi)	D695	7,500
Hardness, Rockwell	D785	56L
IZOD Impact Notched (ft-lb/in)	D256	2
Thermal		
Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	4.2
Heat Deflection Temp (°F / °C) at 264 psi	D648	195 / 92
Vicat Softening Temp (°F / °C)	D3418	214 / 102
Max Operating Temp (°F / °C)	-	140 / 60
Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	C177	-
Flammability Rating	UL94	H-B
Electrical		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	45
Dielectric Constant at 1MHz	D149	2.7
Arc Resistance (sec)	D495	100
Volume Resistivity (ohm-cm) at 50% RH	D257	>10 ¹⁶

*The results of this Data sheet are just for information or comparison purposes only and should be used as a guide. This information is believed to be accurate. It is intended for professional end users who have the skills required to evaluate and use the data properly. Cebelio Holdings LTD. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

Contact

Physical
Cebelio LTD
22 Tanner Street
Woolston
Christchurch
New Zealand

Postal

PO BOX 9316
Tower Junction
Christchurch
New Zealand
8024