

HIPS

Polystyrene (PS) is one of the oldest thermoplastic polymers and is a non-crystalline thermoplastic resin. It can be divided into General Purpose Polystyrene (GPPS) and High Impact Polystyrene (HIPS). HIPS is produced by adding polybutyl rubber particles. Light weight and easy to handle, HIPS is naturally transparent, rigid, with low density and is widely used in a number of consumer product applications.

Typical Property Values

Property	Item	Test Method	Unit	Value
Physical	Density	ASTM D792	lb/ft ³	1.04
	Density	ASTM D785	-	R95
	Tensile Strength	ASTM D638	psi	2,750
	Elongation at Break	ASTM D638	%	52
	Flexural Modulus	ASTM D730	psi x 10 ⁵	275,000
	Flexural Strength	ASTM D730	psi	6,000
	Izod Impact Resistance	ASTM D256	ft lb/in	2
Thermal	Hea: Deflection Temp	ASTM D648	F@66psi	1.4
	Hea: Deflection Temp	ASTM D648	F@264psi	90.6
	Melt Flow Rate MFR 230 C/3.8kg	ASTM D1238	g/10min	2

HIPS Specifications

Property	Specifications
Thickness	1.0mm - 30.0mm
Standard Sheet Size	1.22m x 1.83m / 1.22m x 2.44m
Max Width	Upto 2.1m
Colour	Clear, Standard Colours, or Custom Colours

Remarks

- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.

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