



### Meta Impact Sheet

HIPS or High Impact Polystyrene sheet is obtained by blending standard styrene with impact-improving additives. Due to the combination of versatility, easy processing and good value polystyrene is one of the largest volume thermoforming plastics. The surface allows for good ink adhesion with the end product rich in looking, durable and functional.

#### Features

- Excellent thermoforming characteristics
- Good impact strength
- FDA approved - food safe
- Excellent printability
- High degree of hardness
- Low moisture resistance
- Die cuttable

#### Applications:

- Point of sale display
- Promotional items
- Packaging & appliances containers
- Tags and labels
- Indoor signage

#### Fabrications:

- Thermoforming
- die cutting
- vacuum forming

#### Available Sizes

META IMPACT SHEETS		SIZE
Meta Impact Optically Clear	0.70mm	4 ft x 8 ft
	0.50mm	4 ft x 8 ft
Meta Impact High Gloss White	0.5mm	4 ft x 8 ft
	0.5mm	3 ft x 6 ft
	1.0mm	4 ft x 8 ft

#### Advantages:

- High Impact Polystyrene (HIPS) is an economical and versatile plastic.
- It shows good impact resistance, dimensional stability and can be easily molded.
- High Impact Polystyrene is glossy in nature and easily process able.
- It can be easily painted thanks to its amorphous structure.
- Majorly used in applications where flexibility, impact resistance, easy machinability, and low cost are required.
- Being shatterproof it is extensively used in product packaging applications.
- High Impact Polystyrene advantages have made it a thermoplastic of choice in automotive, electrical and electronics, household and consumer products and other applications.

#### Disadvantages:

- Not weather resistant.
- Becomes brittle due to UV light.
- Large forms/casing not very strong.

## **FREQUENTLY ASKED QUESTIONS:**

### **High Impact Polystyrene Processing**

High impact polystyrene can be processed by every conventional technique used for thermoplastics.

Drying is normally not necessary. But if necessary, the product can be dried for 2 hours at about 80°C.

### **High Impact Polystyrene Extrusion**

A melt temperature of 180-280°C is recommended. Generally, mold temperature should lie between 30 and 50°C. For thin wall objects molded at short cycle times it could be useful to cool down the mold down to 10°C. Mold shrinkage lies between 0.4 and 0.7% depending on the grade used.

HIPS is perfect for demanding end-use applications in the food, dairy, and medical packaging industries. The properties ensures compliance with strict food and medical regulations. HIPS sheets are especially suitable for thermoforming, die cutting, and vacuum forming applications and is a very easy material to work with. No known microorganism can biodegrade HIPS, and it is often abundant as a form of pollution in the environment, particularly along shores and bodies of water.

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