

# HIPS – Hi Impact Polystyrene

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## APPLICATIONS

**Toys and novelties, rigid packaging, refrigerator trays and boxes, cosmetic packs and costume jewellery, lighting diffusers, audio cassette and CD cases.**

## PROPERTIES

**Brittle, rigid, transparent, low shrinkage, low cost, excellent X-ray resistance, free from odour and taste, easy to process**

## PHYSICAL PROPERTIES

Tensile Strength	2.30 - 3.60	N/mm <sup>2</sup>
Notched Impact Strength	2.0 - 2.5	Kj/m <sup>2</sup>
Thermal Coefficient of expansion	80	x 10 <sup>-6</sup>
Max Cont Use Temp	70 - 85	oC
Density	1.05	g/cm <sup>3</sup>

## RESISTANCE TO CHEMICALS

Dilute Acid	*** variable
Dilute Alkalis	****
Oils and Greases	*** variable
Aliphatic Hydrocarbons	****
Aromatic Hydrocarbons	*
Halogenated Hydrocarbons	*
Alcohols	*** variable

## KEY

\*poor                      \*\* moderate                      \*\*\* good                      \*\*\*\* very good