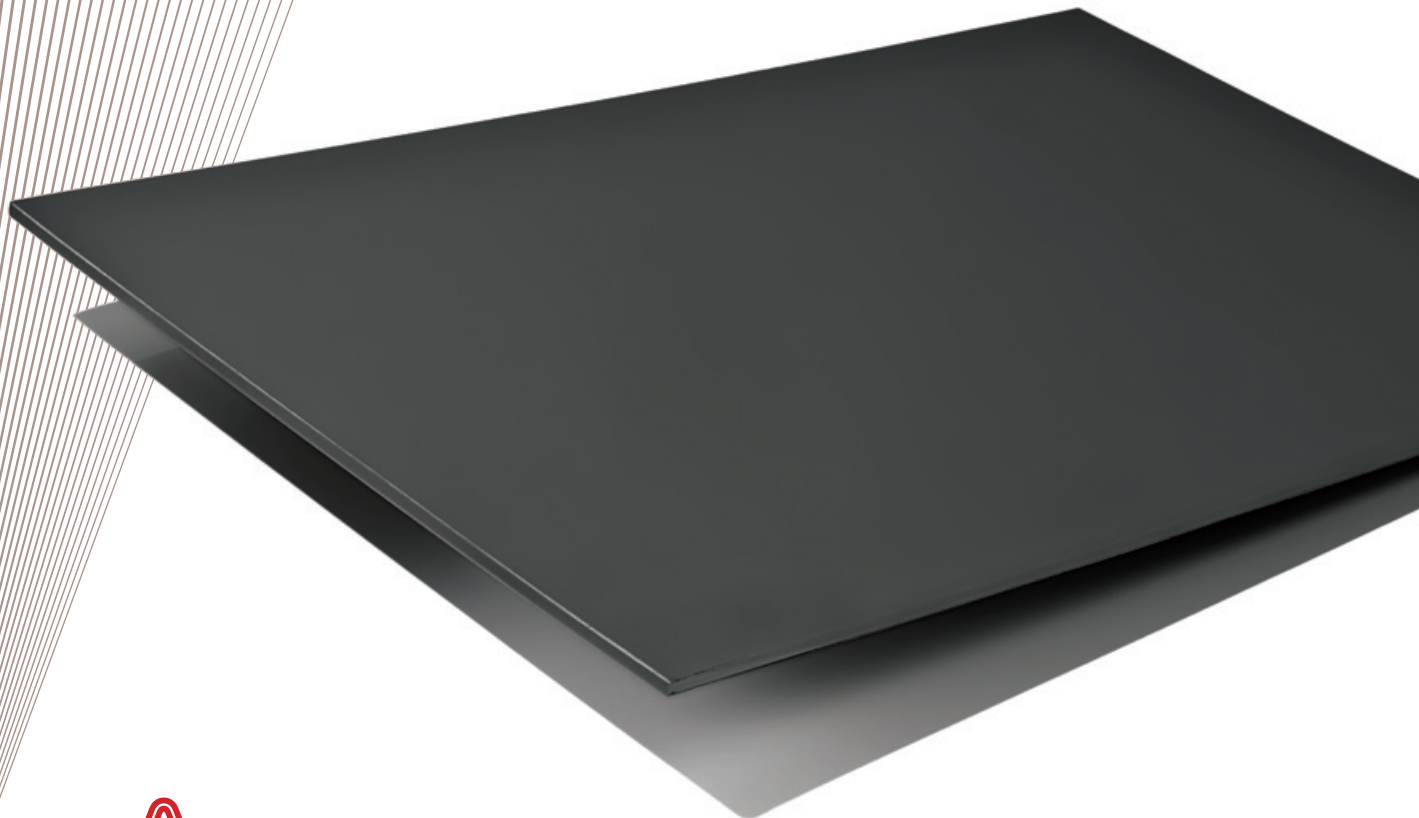


HIGH IMPACT POLYSTYRENE

High-impact polystyrene (HIPS) is a rubber-modified polystyrene that is significantly harder and more impact-resistant than general purpose polystyrene.

Ampa Plastics also manufactures a modified form of HIPS known as ESCR/HIPS, or environmental stress crack resistant HIPS. ESCR/HIPS is less susceptible to environmental stress cracking than HIPS. ESCR/HIPS is extensively used in the refrigeration industry.





Stock availability

COLOUR, FINISH & SHEET SIZE (sheet size: length x width in mm)		SHEET THICKNESS (mm)								
		0.4	0.5	0.75	1.0	1.5	2.0	2.5	3.0	4.0
HIGH IMPACT POLYSTYRENE										
WHITE MATT	(2000 x 1000)	●	●	●	●	●	●		●	
WHITE MATT	(2500 x 1250)				●	●	●		●	●
WHITE HIGH GLOSS	(2000 x 1000)		●		●	●	●			
WHITE HIGH GLOSS	(2500 x 1250)				●	●	●		●	
SILVER HIGH GLOSS	(2500 x 1250)								●	
BLACK HIGH GLOSS	(2000 x 1000)				●					
BLACK HIGH GLOSS	(2500 x 1250)				●	●	●	●	●	

STOCK IS SUBJECT TO AVAILABILITY. NON-STANDARD SIZES, THICKNESSES AND COLOURS CAN BE MANUFACTURED ON MINIMUM ORDER.

Key features of High Impact Polystyrene

- Relatively low-cost
- Impact-resistant, hard and dimensionally stable (between 10°C and 30°C working temperature range)
- Medium- or high-gloss finish
- Easily machined and thermoformed
- Good electrical insulator
- Does not absorb much moisture
- Can be painted, bonded and/or glued
- Not UV resistant (will yellow if exposed to UV light or other weathering factors)
- Susceptible to environmental stress cracking (unless modified to ESCR/HIPS grade polystyrene)
- Odourless and tasteless, making it suitable for use with food
- Easily recyclable

Applications of High Impact Polystyrene

- **Appliances** (ESCR/HIPS is extensively used in the refrigeration industry)
- **Packaging** (food, electrical equipment)
- **Indoor signage and advertising**
- **Machining of prototypes**
- **Thermoforming**



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