



## supercor

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### Corex - Australia

- Supercor is a plastic fluted sheet: two flat sheets connected by vertical ribs. Made from polypropylene co-polymer, it has superior rigidity and strength to weight ratio compared to a solid sheet.
- Supercor has many features, including water resistance, food contact approved, UV stabilized, chemical resistance and light weight.
- It has excellent affinity to printing inks when the correct surface treatment is applied. Together with its ease of fabrication, Supercor lends itself to a wide variety of indoor and outdoor applications.
- Supercor is ideal for Real Estate signs, display and point of sale boards and packaging

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Weight	GSM	900	2000
Thickness	mm	4.8	8.5
Flat Crush	KPa	880	2032

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Printing Process    Screen printing

Printing Inks        Conventional solvent evaporative inks or UV-cured inks

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Established in 1985, Corex is now Australia's largest manufacturer of Hollow Profile and solid Polypropylene and HDPE sheet products.

Supercor is made from polypropylene and is highly resistant to water and organics environments. It is not attacked by aqueous solutions of inorganic salts, or by most strong mineral bases. Supercor retains resistance to temperature up to 60°C or higher.

### Chemical Properties

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Supercor has excellent chemical resistance properties. They are however, two types of chemicals that should be avoided-

- Solvents or stress cracking agents for PP such as chlorinated solvents and some hydrocarbons.
- Strong acids or oxidising agents.

### Weathering

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UV stabilised Supercor has an expected outdoor life of two or more years depending on color, degree of sunlight exposure and general weather conditions.

### Service temperature

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Supercor will retain its rigidity between -20°C to +85°C. At sub-zero temperature, the mechanical properties drop progressively and become brittle at temperatures below -20°C. At temperatures greater than 70°C, Supercor will start to show signs of permanent bowing which may affect screen printing properties.

### Printing

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Supercor has been corona-treated to provide good affinity to printing inks. The high quality stable surface of Supercor is well suited for screen printing, using either conventional solvent evaporative inks or UV-cured inks.



# technical fact sheet

## Food contact

Supercor is suitable for food contact use as per AS2070 part5.

## Environment

Supercor can be recycled by Corex who have developed a repurchase program to help protect our environment.

The polypropylene used for the manufacture of Supercor has the following properties:

Property	Test Method	Typical Value
Tensile Strength Yield	ASTMD638	27MPa
Elongation Break	ASTMD638	200%
Flexural Modulus	ASTMD709	1.1 GPa
Heat Distortion Temp. 455KPa	ASTMD648	100°C
Hardness Shore D	ASTMD785	89
Izod Impact Notched 23-0	ASTMD256	150J/m