



multicor

Corex - Australia

- Multicor 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.
- Multicor 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, Multicor lends itself to a wide variety of indoor and outdoor applications.
- Multicor is ideal for Real Estate signs, display and point of sale boards and packaging

Technical Information

Chemical Properties

Multicor 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

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

Service temperature

Multicor 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, Multicor will start to show signs of permanent bowing which may affect screen printing properties.

Printing

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

Food contact

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



Multicor - cont

The polypropylene used for the manufacture of Multicor 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

Thickness	ums	3000	3300	3500	4200
	mm	3.0	3.3	3.5	4.2
Grammage	gsm	500	550	600	900
Flat Crush	KPa	685	740		1008

Technical Capabilities

Printing Process	Screen printing
Screen Ruling	
Printing Inks	Conventional solvent evaporative inks or UV-cured inks