

Technical Specification Sheet

Product Name: Flute

Description: Flute is a corrugated twin wall polypropylene sheeting designed for signage, displays, packaging, protection of surfaces and many other industrial applications.

It combines lightweight with high strength, durability and impact resistance. It is also non-toxic, UV stabilised as well as water and chemical resistant, making it weatherproof for any environment.

Furthermore, Flute is food grade approved and 100% recyclable.

Base Material: 100% Virgin Polypropylene Co-Polymer

Colours: White, Black, Red, Green, Blue, Yellow, Orange, Pink, Purple, Grey, Brown and Natural

Outdoor Life: Up to 24 months. However, the life span of Flute will be determined by environmental factors such as; rain, wind, sunlight, temperature, altitude and even pollution. The extreme exposure to any of the aforementioned will heavily reduce the performance of Flute

Service Temperature: -20°C to +90°C ±3°C

Ink Compatibility: Conventional Screen Printing
UV Curable Screen Printing
UV Curable Flatbed Digital Printing*

*It is recommended that Flute be tested prior to printing to confirm compatibility with specific printers and inks used.

Technical Data:

Gauge (mm)	Weight (g/m ²)
2.0	350
3.0	500
3.3	550
4.0	750
5.0	900
6.0	1100

Property	ASTM Method	Value
Density Specific Gravity	D1505	1.0-1.2g/cm ³
Tensile Strength Yield	D638	60 kg/cm ²
Flexural Modulus	D790	11,000 kg/cm ²
Elongation Break	D638	200%
Stress Yield	D638	200 kg/cm ²
Water Absorption	D570	0.03%
Notched Izod Impact	D256	8 kg-cm/cm (-20°C)
Notched Izod Impact	D256	75 kg-cm/cm (23°C)
Heat Distortion Temp.	D648	100°C
Rockwell Hardness	D785	80 R Scale
Surface Tension (Dyne Level)	D2578	48 dyne/cm (min.)

Tolerance:

Width:	Size	Tolerance
Method		
Extrusion Process (cut on line)	Any	0mm to +5mm

Length:	Size	Tolerance
Method		
Extrusion Process (cut on line)	0mm – 1220mm	0 - 1%
	1220mm – 2440mm	0 - 1%
	More than 2440mm	0 - 1%

Thickness: ±0.15mm

Unit Weight: ±3%

Squareness (Difference of the two diagonals):		
Method	Size	Tolerance
Extrusion Process (cut on line)	0mm – 1220mm	<3mm
	1220mm – 2440mm	<5mm
	More than 2440mm	<5mm

Straightness:

Flute may slightly curve along the flute direction. The straightness is related to the ratio of length and width of Flute board. The thinner the board, the more obvious the curve would be created. The straightness can be obtained from measuring the maximum gap between edge and Flute board when the two corners of Flute touch the straight edge.

Length	Ratio Length to Width	Tolerance
0mm – 1220mm	0 - <3	<3mm
1220mm – 2440mm	0 - <3	<3mm
More than 2440mm	0 - <3	<6mm

Warpage:

Warpage is the side profile height ("hump") when Flute board is laid on a flat surface.

Length/Width	Tolerance
0mm – 610mm	<3mm
610mm – 1220mm	<4mm
1220mm – 2440mm	<5mm

Disclaimer:

The purpose of this document is for technical support of the use of Flute.

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