

Product: EcoFlute

Category: Sign, Display & Digital - Rigid

Technical specifications:

EcoFlute 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, EcoFlute is food grade approved and 100% recyclable.

Product Specification

Base Material: 100% Virgin Polypropylene Co-Polymer

Colours: White

Outdoor Life: Up to 24 months. However, the life span of EcoFlute 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 EcoFlute

Service Temperature:

Ink Compatibility: -20°C to +90°C ±3°C

Conventional Screen Printing
UV Curable Screen Printing
UV Curable Flatbed Digital Printing*

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

Gauge (mm) Weight (g/m²)

3.0	500
5.0	900

Property	ASTM Method	Value
Density Specific Gravity	D1505	0.91 - 0.93 g/cm ³
Tensile Strength Yield	D638	260 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.)

Technical specification sheet

Ball & Doggett
ballanddoggett.com.au

Width:**Method**

Extrusion Process (cut on line)

Size

Any

Tolerance

0mm to +5mm

Length:**Method**

Extrusion Process (cut on line)

Size

0mm - 1220mm

1220mm - 2440mm 0 - 1%

More than 2440mm

Tolerance

0 - 1%

0 - 1%

Thickness: ±0.15mm**Unit Weight:** ±3%**Squareness (Difference of the two diagonals):****Method**

Extrusion Process (cut on line)

Size

0mm - 1220mm

1220mm - 2440mm More
than 2440mm**Tolerance**

<3mm

<5mm

<5mm

Straightness:

EcoFlute may slightly curve along the flute direction. The straightness is related to the ratio of length and width of EcoFlute 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 EcoFlute board when the two corners of EcoFlute touch the straight edge.

Length

0mm - 1220mm

1220mm - 2440mm

More than 2440mm

Ratio Length to Width

0 - <3

0 - <3

0 - <3

Tolerance

<3mm

<3mm

<6mm

Warpage:

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

Length/Width

0mm - 610mm 610mm -

1220mm 1220mm -

2440mm

Tolerance

<3mm

<4mm

<5mm

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

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