

Description: Coextruded bi-coloured polypropylene corrugated sheet. The grey side is made of recycled polypropylene, the white side is made of mat white virgin polypropylene.

Main application: Printing, and any application for which transparency effects have to be avoided (i.e. for outdoor use).

Basic component: Copolymer polypropylene (C₃H₆)_n(C₂H₄)_m

Standard colours: White code BI050 on side suitable for printing; grey on the other side.

STANDARD FLUTE – Rib distance 3.5 mm								
Length (mm)		600-6000						
Width (mm)		450-2000						
Thickness (mm)		2.0	2.5	3.0	3.5	4.0	4.5	5.0
Density (g/m ²)	Min	280	400	400	600	700	850	900
	Max	400	800	1200	1500	1500	1500	1500

SEMILARGA FLUTE – Rib distance 4.5 mm								
Length (mm)		600-6000						
Width (mm)		400-2050						
Thickness (mm)		3.5	4.0	4.5	5.0	6.0	7.0	8.0
Density (g/m ²)	Min	450	500	600	650	1000	1500	1500
	Max	600	800	800	1500	2000	2000	2000

Technical Features		Acceptance Criteria
Length (mm)		+/- 1%
Width (mm)		+/- 3 mm
Diagonals difference		< 0.5% up to max 10 mm
Thickness (mm)		+/- 0.1 mm
Density (g/m ²)		+/- 10% up to 1000 g/m ² +/- 5% more than 1000 g/m ²
Master opacity level		+/- 5% by comparison with sample reference
Appearance		Evaluation made by the quality control personnel in comparison with the sample of reference
Coefficient of thermal expansion		Value included between 100-200 µ°C/m

Trimming/Die cutting upon request

It is possible to trim/die cut the sheet at ambient temperature in order to improve tolerances on dimensions and/or to reduce the dimension itself.

Tolerances on dimensions guaranteed by trim/die cut will be within ± 1 mm and diagonals difference within < 2 mm.

Packaging and selling units

- On wooden pallet, stretched film, strapped, corner protectors.

Chemical features

Main component: Polypropylene Copolymer (PP)

CPL® sheets guarantees waterproof properties and chemical resistance against the majority of alkaline products, salts solutions, solvents and heavy mineral acids at temperatures lower than 60°C. They can be on the other side etched by heavy oxidative agents, nitric acid, hydrogen peroxide and chlorosulphonic acid. Waving can be caused by a prolonged aliphatic, aromatic and chlorinated hydrocarbons etching.

Standard Additives

- Antistatic Masterbatch, base PP.
- Colour Masterbatch, base LDPE.
- AntiUV Masterbatch, base LDPE upon request.

Corona treatment: On the white side: Superficial tension ≥ 46 Dynes/cm (average duration 6 months). Please note that corona treatment naturally fades over time. We do recommend to store CPL® at temperatures included between 5°C and 30°C in order to maintain product features as long as possible. We recommend as a good practice to check corona treatment and compatibility with printing inks before proceeding to printing. Whenever corona treatment should fade under 40 Dynes, we recommend to use a primer before processing CPL sheets. It is recommended to use inks that are dedicated to non absorbing materials. For UV – printing please ask to your ink supplier for specific technical advice.

Suggested product use

Working temperature range is included between : $-20^{\circ}\text{C} < T^{\circ}\text{C} < +60^{\circ}\text{C}$. Polypropylene can withstand peak temperatures included between $-20^{\circ}\text{C} < x < 120^{\circ}\text{C}$ without damage. We do recommend to process CPL® sheets at temperatures included between 5°C and 30°C. Please allow CPL® to reach a uniform temperature of at least 15°C in each point prior to proceeding to any further processing. Whilst designing and converting finished articles please mind the above mentioned coefficient of linear expansion.

Regulatory Requirements

- Directive 94/62/CE and subsequent amendments
- Regulation 1907/2006/CE of 18th December 2006 (REACH).

Recyclability



CPL® sheets are 100% recyclable

Technical basic supply conditions

- Colour and flute type are specifications mutually agreed with the Customer through approval of a reference sample.
- Selling units: Sheets are intended to be sold in number of units. Possible requests in volume (Kg) are converted into pieces
- Please retain pallet label for traceability and product identification purposes.
- All the manufacturing operations and quality controls on the product are being performed at ambient temperature.

Please note that this information regards the product as commercialized by Karton Spa and consequently any further treatment, handling, processing performed on this product by the Customer don't lie under Karton responsibility. We would like to inform you that the use of the product referenced in this document within an industrial or commercial site doesn't exclude responsibility for assessing its technological fitness in relation to the end destination use.