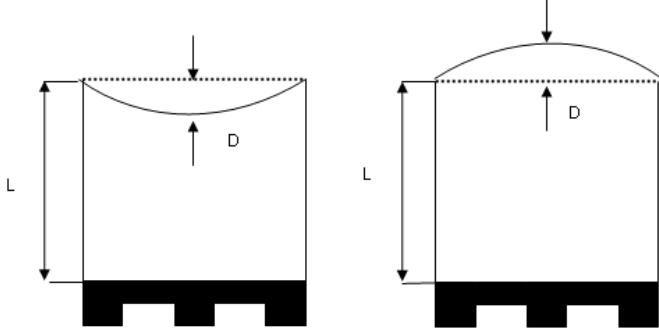


Description: Polypropylene sheet suitable for printing, welding and gluing, characterized by a glossy (G) finishing on both sides.

Main component: polypropylene (PP)

Main applications: Stationery, point of sales, packaging, Offset UV printing, etc.. .

Colours: Standard colour NEUTRAL. Other colours are available upon request (*).

CHARACTERISTICS			
Theoretical gravity weight	0,92 g/cm ³		
Sheet dimensions (*)	Thickness:	0,30 mm – 1,00 mm	± 5% up to a max of ± 0.05mm
	Length:	500 mm ≤ length. ≤ 1500 mm	± 3 mm
	Width:	750 mm ≤ width. ≤ 1000 mm (max)	± 3 mm
	Diagonals difference	≤ 4 mm	diagonals ≤ 1000 mm
		≤ 10 mm	1000 < diagonals ≤ 2000 mm
Sheet planarity	± 0.6% length of short side		
Pallet planarity	 <p>Pallet Planarity D: ≤ 3% pallet height (L)</p>		
Coefficient of thermal expansion	Value included between 100-200 µ/°C/m		

Chemical resistance

Polypropylene sheets have good chemical resistance against the majority of alkaline products, salts solutions, solvents and heavy mineral acids at temperatures lower than 60°C. Polypropylene 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.

POSSIBLE TREATMENTS – ON CUSTOMER’S REQUEST WHEN ASKING FOR QUOTATION

- Trattamento Corona:** the sheet is treated on both sides to obtain a better ink key or glue bodying. Value off extrusion: 46 dyn/cm. Please note that corona treatment naturally fades over time. If stored correctly (please see Suggested product use), Eplak can be successfully worked up to three months after extrusion (42 dyn/cm). Therefore, the producer recommend as a good practice to print Eplak sheet as soon as possible from delivery and in any case, check corona treatment and compatibility of printing inks or glues. Whenever corona treatment should fade under 40 dyn/cm, we recommend to use a primer before processing Eplak sheets.

- **Antistatic treatment:** to reduce static charges, improving handling of the sheets and its aspect (dust-free). Antistatic additive is not compatible with off-set printing due to deposits on the caucciù and development of coats.
- **Antiblocking treatment:** Additivation that efficiently reduces the blocking effect. This additive, suitable for food contact applications, tends to migrate to the product's surface and therefore, for an optimum result, we do recommend to print Glossy Eplak as soon as possible after reception; please remember that the additive's migration and set-off increase proportionally with the ambient temperature. Upon request it's possible to manage extra additivation on both sides, whenever the process requires extra-slippery sheets: in this case we do not recommend to assign those sheets for printing works.
- **Anti-UV treatment:** additivation available upon request, in case of outdoor applications. In order to manage correctly the product design, Customer is pleased to notify our sales departments when submitting initial request for a material to be suitable for outdoor use and/or need withstand generic UV irradiation, providing the following information:
 - Type of exposition of the finished article (direct sunlight / internal / outdoors);
 - Minimum requested endurance (target time) in that environment.
 The interaction of chemicals such as varnishes, solvents, printing inks and cleaning agents could jeopardise the UV endurance of the finished article. Please verify the compatibility with polypropylene. Any outdoor use of polypropylene material is made at the Customer's own risk unless the above minimum information has been notified in writing.

Karton will not be held liable for any fault/complaint arisen due to articles that have not been specifically designed and validated (by Karton or by the Customer) for being used outdoors and protected with specific anti-UV additivation, nor Karton will be held liable for any interactions between its own manufactured products and further treatments that are not under its own responsibility.

AVAILABLE PROCESSES – ON CUSTOMER'S REQUEST WHEN ASKING FOR QUOTATION

- **Trimming:** It enables to obtain quadrangular sheets with tolerances on dimensions lower than the standard: length/width: ± 1 mm. Diagonals difference ≤ 2 mm.
- **Die cutting:** It enables to obtain finished articles with variable shape, identical one the other. Standard die-cutting guarantees a cleaning of scraps of 96% approximately. Consequently, a possible presence of scraps in a percentage not exceeding 4% has to be taken into consideration. Only upon request of the customer in writing, agreed-upon with our sales / quality department, it is possible to increase the effectiveness of the cleaning of scraps up to a percentage equal to 99-100%.
- **Printing out of line:** we recommend to print the product on the upper side.

Printing	Print centering	Colour centering
Off-set print	± 4 mm	$\pm 0,12$ mm

Karton would like to inform you that printing costumization are water resistant in normal using conditions which imply only temporary contact with water (please see Storage instruction).

Under no circumstances our company will acknowledge claims or non conformities due to immersion of printed polypropylene articles since this is not a validated and foreseen application for our products.

Suggested product use

We do recommend to process sheets at temperatures included between 5°C and 30°C. Prior to proceeding to any further processing, allow to reach a uniform temperature of at least 15°C in each point.

Regulatory Requirement

- Regulation 1907/2006/CE of 18th December 2006 (REACH and subsequent amendments).
- Safety data sheet: this product is not included in the group of substances for which it is necessary to issue the product safety data sheet (Reg. 1907/2006/CE).
- Directive 94/62/CE regarding heavy metal content.

- Food contact compliance in accordance to Ministerial Decree 21.03.1973 and further amendments and Reg. 10/2011 and further amendments (upon request prior to obtain a commercial offer).

Storage instruction

The product will be supplied with a standard packaging: wooden pallet stretched with film, strapped, corner protectors. We advise to not superimpose the pallets.

Please note that our standard packaging is not to be considered as "waterproof". The Customer can request specific and customized waterproof packaging (with quotation). This risk assessment remains a specific responsibility of the end customer.

Whenever material must be stored/used outdoors we do recommend to follow strictly the following advices:

- Strictly avoid stagnant water to stay over prints for prolonged time;
- Avoid storing outdoors material that is laying horizontally exposed to rainfall without adequate protection;
- Store the material vertically, in order to allow proper water drainage and dry out prior to safe use;
- Please remember always to protect the material with adequate waterproof protections such as PE film or similar.

Recyclability

Polypropylene sheets are made up of a thermoplastic polyolefin 100% recyclable, via thermomechanical processes. The symbol associated to these products is 05 (PP), according to the dispositions of the Association of Plastic Industry (API).



Technical basic supply conditions

- Colour and finish are specifications mutually agreed with the Customer through approval of a reference sample.
- Regulatory compliance regarding specific legislation (i.e. food contact, toys compliance or others), can only be accomplished if requested by the Customer prior to obtain an offer. Only In this case it will be possible to issue a Declaration of Conformity for the related issue.
- 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.