



**Ref.** **R100**  
**Colour** **White / Black / Blue / Red / Green**  
**Embossing** **Sand\* / pearl**  
 (Top / underside) Other emboss patterns on demand

## Composition

- Polypropylene sheet produced from 100% post-industrial polypropylene waste
- Halogen free, no substances that can damage the ozone layer
- Inert waste, non toxic and 100% recyclable

## Chemical properties

- Resistant to water, fats, alcohols and some solvents.
- Polypropylene can swell if exposed to certain solvents.
- Polypropylene along with several other plastics, can be distorted by some conventional litho inks. If the Priplak® is to be used within a litho printed job, avoid litho inks with mineral oil distillate. Vegetable / Soya based inks or similar are known to work well. Check with your ink supplier. Perform trials if in any doubt.

## Physical properties

Properties	Units	Test method**	Values**	Tolerances
<b>Thickness</b>	µm	ISO 4593	300 à 1600	+0,02mm / -0,03mm
<b>Density</b> White Black, Blue, Red, Green	g/cm <sup>3</sup> g/cm <sup>3</sup>		0,92 0,91	+/- 0,01 g/cm <sup>3</sup> +/- 0,01 g/cm <sup>3</sup>
<b>Flexural Elastic Modulus</b>	MPa	ASTM D 790 tested on 500µm sample	800	+/-20%
<b>Tensile Impact test</b>	KJ/m <sup>2</sup>	ISO 8256 tested on 500µm sample	200	+/-30%
<b>Elmendorf Tear resistance</b>	mN	ISO 1974 tested on 500µm sample	5400	+/-30%

The physical properties of the material will change with the temperature conditions.  
Near or below 0°C, the material will become brittle.

\*\* These values are given as indicative for a standard quality and based on the standards mentioned.

## Sheets size tolerance

Sheet size : 0/+5mm ( machine and cross direction )  
 option of guillotine trimming  
 Sheet flatness : 5mm on both sides

## Use conditions

- Acclimatisation at room temperature 24 to 48h after delivery
- Pallets not to be stacked.

## Printing on Priplak®

### Printing UV technology

- Priplak is corona treated on both sides to enable it to be printed in UV offset, UV screen, and UV digital.  
At the time of production, the surface energy is above 46 dynes/cm - but this declines over time. We recommend that Priplak is printed within 6 months from the date of production- for embossed grades, and 3 months for gloss products. (Exact production date is on the label). Keeping the material in its original wrappers and stored in a place without wide variations in temperature - or high humidity is very important. We recommend testing the suitability of the material prior to printing.
- Priplak suggest 4 sides trimmed material for automatic feeding. Our products are treated with an antistatic agent to help with feeding and reduce dust.
- Priplak recommend using inks that are specifically formulated for polypropylene. For more information please contact your ink supplier. Trial / test runs are always advised.
- A UV varnish or sealer is suggested to help protect the image and reduce scratching.

### Other printing technology

Conventional screen (1 pack or 2 packs inks.) Priplak® can be printed with a surface tension below 40 dyne/cm. It is recommended to test before printing.

\*Chevrons patterns may be visible on dark colours, on sand side

## Cutting / Creasing on Priplak®

- Priplak recommend converting the material at temperature around 20°C.
- Cutting and creasing are possible on manual and auto-presses, as used in the cardboard industry. Creasing is mainly done "cold", i.e. normal working conditions. It can also be done with heat for high thickness or special cases.
- Use of semi-cutting blades for creasing is not advisable for Priplak® because they may generate an initial tear.
- In any case, the creasing process lengthens the material, and it is necessary to take this into account during the tooling design and manufacture.
- Cutting Priplak® in smaller sizes than delivered, especially A4 size and smaller, can release tension within the sheet, that can cause curl.

## Assembling

- Priplak® can be glued, screwed, punched, perforated, sewn, ultrasonic / hot air welded...
- For glueing, we recommend 2 different types :
  - hot melt polyurethane reactive ( PUR )
  - cyanoacrylates
- If Priplak® is in contact with printed surfaces (Priplak® used as cover) or laminating, we recommend that you test Priplak® compatibility with the other products involved. Indeed, some glue components, and inks containing a proportion of distillates, used in paper printing, can generate curl when in contact with Priplak®.

## Storage conditions

Store in its original plastic wrapping, at a temperature around 20°C, away from light.

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**Not under controlled distribution**