

Polypropylene PRINT-EX Sheets

The classic PRINT-EX sheets are corona treated polypropylene sheet Suitable for the production of stationary, promotion and packaging items for indoor use. PRINT-EX is available in natural and white shades. *(For colored check ART-EX range)*

Top Embossing	Matt	Matt	Matt	Satin	Gloss	Matt
Bottom Embossing	Matt	Geematt	Orange	Matt	Matt	Peach
Thickness μm	350-1800	200-350	350-2000	350-1500	350-1200	300-800
Thickness tolerance μm	+20-30					
Size tolerance mm	+5-0					
Angular tolerance 90°	90±0.2°					

Specific Gravity	White opaque (B)	300 – 400 μm	0.96
		401-700 μm	0.95
		701-1800 μm	0.93
	Natural	Any thickness	0.92
Coefficient of thermal expansion		10 ⁻⁴ /K 5-80°C	1 mm for each meter for change of 10°C
Cold brake temperature		5°C	Take care when designing items used in cold temp.

Surface: both sides are corona treated for screen and offset printing. The treatment is guaranteed for 6 month for conventional screen printing and 3 month for UV screen and Offset printing. Check production date before printing!

For extended life and super ink bonding select PRIMEX grades

Inks: Use inks for corona treated PP Always check carefully if ink is suitable to the job and process.

Wrap and distortion: PP sheets can be distorted by chemicals. Some conventional Offset inks contain chemicals that distort the sheets. Avoid inks with high mineral oil distillates. There is a risk of distortion when PP sheet is coming in contact with paper printed items, especially when the ink is still fresh (high odor emits from paper). Perform trials if such problem can accrue.

Printing acrylic OPV on the PP or laminating the paper that comes in contact with PP can reduce the risk.

Cutting and creasing: Acclimate the sheets to room temperature before converting (also in the core of the pallet). Use blades 0.7mm thick double bevel. Crease on flat bed. Smoothness of bed is important to get high quality crease.

Use rubber extractors between close cease roles in order to eliminate whitening.

When stamping use steel stamp for long stamp life.

During design stage, be aware of the sheet grain. Don't end internal cuts with straight end with radius.

Foil blocking: use zinc or brass stamp. Select foils suitable for pp and for the required print resolution.

Welding: the sheet can be welded by hot plate ultrasonic and hot air depends on application.

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Conformity:

PRINT-EX Range is suitable for direct food contact under European Directive 10/2011 and amendments. Specific food contact declaration with SML will be supplied on request. EX-P standard colors confirms to the following norms. Check confirmation for special shades.

Norm	EN71/3 toy and safety standard	Food European Directive 10/2011 and amendments*	RoHS Directive 02/95/EC	Heavy metals Directive 94/62/EC
<i>PRINT-EX Range</i>	YES	YES	YES	YES

*Food contact conformity should be requested prior to placement of an order. Exten will not provide conformity declaration for articles already produced without particular notice from the client.

Storage: store in dry and shaded place. Do not store at temperature higher than 25°C, printability deteriorates.

In order to protect the sheets from distortion always remove all the stretch film before cutting the straps. Leave the inner packaging film

Recycling: Production rejects and waste should preferably be recycled instead of being disposed. *Primex GLOSS* is degradable by UV light and combustion. *PRINT-EX Range* is not biodegradable.