

Polypropylene PRIME-EX Sheets

The classic PRIME-EX sheets are primed polypropylene sheet suitable for the production of printed stationary, promotion and packaging items for indoor use. PRIME-EX is available in natural and white and colored shades. When ordering YOU HAVE TO SPECIFY IF THE PRIMER SHOULD BE PRIME-EX X1 OR PRIME-EX X2

Top Embossing	Matt	Matt	Matt	Satin	Gloss	Matt
Bottom Embossing	Matt	Geematt	Orange	Matt	Matt	Peach
Thickness μm	350-1200	200-350	350-1200	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: The coating is a special chemical resistant primer. Which enable exceptional ink adhesion, scratch resistance and chemical resistance, to the final label?

The satin surface becomes very glossy after varnishing (with low “orange peel” effect)

The primer guarantees printing for 12 month after production date.

The other side is corona treated or primed according to order specification.

The corona level is 38-40 dyne for 12 month after production date.

Stesic discharge: Anti-static ionizing bars must be used in the printing machine.

The OPV applied by the printer is an antistatic functional layer.

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 comes 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 rulers 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.

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Welding: the sheet can be welded by hot plate and ultrasonic. Hot air may not work.

Conformity: Heavy Metal Free. Not confirmed to direct food contact.

Norm	Toy safety Directive 2009/48/EC Flammability & Migration	COMMISSION REGULATION (EU) No 10/2011	RoHS Directive 02/95/EC	Heavy metals Directive 94/62/EC
	Yes	No	Yes	Yes

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* is degradable by exposure to UV light and combustion. *PRIME-EX Range* is not biodegradable.