

PRINT-EX IML-NATURAL

Polypropylene sheet for In-mold decoration

PRINT-EX IML is Suitable for the production of in mold labels
The injected articles made from polypropylene.

PRINT-EX IML is non-oriented embossed film with the following features.

- Main use is for labels printed in reverse and the ink is protected by the transparent sheet.
- Transparent PP impact modified with other olefins.
- Gloss surface for extremely glossy finish. Alternatively Satin finish
- Recyclable with polyolefin materials
- Very low orientation
- Ductile and formable results in high impact of the injected object
- Excellent adhesion to PP in IML
- No orange peel effect.
- Resistant to moisture and oils
- EU and US food contact approvals.

Applications:

The low orientation and flexibility of **PRINT-EX IML** makes it ideally suitable for complex die cutting and 3 dimensional complex molding as well as simple conical or flat surface.

Surface is corona treated according to client request.

PRINT-EX IML is suitable for large articles with high wall thickness.

Surface finish		
Top	Gloss or Satin	
Bottom	Matt embossed for easy handling (Geematt)	
Corona treatment: Specify what sides to treat in the order		>40 dyne/cm
Typical thickness μm		190-300
Thickness tolerance μm		+10-10
Specific Gravity	Natural	0.92
Format tolerance mm		+5-0

Property	Method	Unit	Value
Tensile Strength at Yield MD / TD	ASTM 882	MPa	14 / 14
Elongation at Yield MD / TD	ASTM 882	%	18 / 15
Tensile modulus	ASTM 882	MPa	800
Hardness Shore D-scale	ASTM D 2240		48
Tear	ASTM D1004	N/mm	>150

Surface: Corona treated for Flexo, Screen and Offset printing. The treatment is guaranteed for 3 month Check production date before printing! **State which sides to treat in the order.**

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

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

Conformity:

PRINT-EX IML is suitable for direct food contact.

Specific food contact declaration with SML will be supplied on request.

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

**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.*

Health and Safety:

For Health and Safety information, please contact our sales department

Production capabilities:

Thickness (micron)	Min width (mm)	Max width (mm)	max length (mm)	Corona treatment
190-300	900	1150	1000	Treatment on one or both sides is possible

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

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