

# PRIMEX-EX X1 IML LOW MIG

## Polypropylene sheet for In-mold decoration

**PRIME-EX X1 IML LOW MIG** is Suitable for the production of in mold labels  
The injected articles made from polypropylene

**PRIME-EX X1 IML LOW MIG** is non-oriented embossed film with the following features.

- **WHITE** or **NATURAL** color.
- Sheets are specially formulated for articles intended for food packaging.
- Gloss surface or satin coated with matt primer for excellent adhesion and chemical resistance
- Recyclable with polyolefin materials
- Very low orientation
- Ductile and formable results with high impact of injected object
- Excellent adhesion to PP in IML
- High gloss external print. No orange peel effect.
- Resistant to moisture and oils

### Applications:

The low orientation and flexibility of **PRIME-EX X1 IML LOW MIG** makes it ideally suitable for complex die cutting and 3 dimensional complex molding as well as simple conical or flat surface.

The non-oriented and ductile film is not reducing the impact strength of the injected object.

The coated surface makes UV printing inks very durable.

**PRIME-EX X1 IML LOW MIG** is suitable for large articles with high wall thickness.

Surface finish		
Top (printable side)		Gloss or Satin - with matt coating
Bottom (not printable side)		Matt embossed for easy handling (Geematt) Bottom side is untreated for easy welding to PP
Typical thickness µm		200-300
Thickness tolerance µm		+10-10
Specific Gravity	White 0050D	0.94
Format tolerance mm		+5-0

Property	Method	Unit	Value
Tensile Strength at Yield MD / TD	ASTM 882	MPa	15 / 15
Elongation at Yield MD / TD	ASTM 882	%	15 / 11
Tensile modulus	ASTM 882	MPa	850
Hardness Shore D-scale	ASTM D 2240		50
Tear	ASTM D1004	N/mm	>150

**Surface:** top side is coated for UV printing inks for long lasting printability.

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

Technical Data Sheet **PRIMEX-EX X1 IML LOW MIG**

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

**Conformity:**

**Conformity: PRIME-EX X1 IML LOW MIG** is a printing substrate for articles that are coated with ink. The packaging producer should reduce migration by applying a barrier layer with varnish or lamination. Finished article or packaging should be tested for overall migration limits. This is the responsibility of the producer of the final article.

Norm	EN71/3 toy and safety standard	European Commission Regulation 10/2011	RoHS Directive 02/95/EC	Heavy metals Directive 94/62/EC
<b>PRIME-EX X1 IML LOW MIG LOW MIGRATION</b>	YES	YES * See statement of compliance COC	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	1050	1000	Treatment on uncoated side is possible

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

**Recycling:** Production rejects and waste should preferably be recycled instead of being disposed. **PRIME-EX X1 IML LOW MIG** is degradable by exposure to UV light and combustion. **PRIME-EX X1 IML LOW MIG** is not biodegradable.