

# PRIME-EX X1 IML NATURAL

## Polypropylene sheet for In-mold decoration

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

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

- Transparent natural color PP
- Gloss or Satin surface coated with matt primer for excellent adhesion and chemical resistance
- Recyclable with polyolefin materials
- Very low orientation
- Ductile and formable results in high impact of injected object
- Excellent adhesion to PP in IML
- No orange peel effect.
- Resistant to moisture and oils

### Applications:

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

The coated surface makes UV printing inks very durable.

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

Surface finish		
Top (printable side)		Gloss with matt coating or Satin with matt coating
Bottom (not printable side)		Matt embossed for easy handling
Thickness µm		200-300
Thickness tolerance µm		+10-10
Specific Gravity	Natural	0.91
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.

The corona treatment is guaranteed for 6 month Check production date before printing!

**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:

**PRIME-EX X1 IML** is not suitable for direct food contact.

For indirect food packaging application ask for **PRIME-EX X1 IML Low migration**.

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- if printing is external	Yes	Yes

### 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 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** is degradable by UV light and combustion. **PRIME-EX X1 IML** is not biodegradable.