Packaging & Graphic sheets

films, laminates and sheets

Technical Data Sheet

PRIMEX-EX X1 IML LOW MIG

Polypropylene sheet for In-mold decoration

PRIME-EX X1 IML LOW MIG 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: Use inks for suitable for plastics Always check carefully if ink is suitable to the job and process.

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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
PRIME-EX X1 IML LOW MIG LOW MIGRATION	YES	YES * See statement of compliance COC	YES	YES

**Food contact conformity should be requester 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 UV light and combustion. **PRIME-EX X1 IML LOW MIG** is not biodegradable.

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