

PROVISIONAL

## H1ELDTTI-MO

HIGH MATT BOTH SIDE CORONA TREATED MATT OUTSIDE FOR EXTRUSION LAMINATION & PACKAGING CONVERSION



Corona treated Matt surface  
OPP Core  
Corona treated Glossy surface



AVAILABLE  
CALIPERS

### DESCRIPTION

H1ELDTTI-MO is transparent one side matt finish **BOPP** film. It is corona treated on both glossy & matte surface, outside surface is Matt. The paper like matte appearance provides satiny appearance and a differentiated shelf appeal. This film is specially designed for Extrusion lamination.

### PRODUCT FEATURES

- Matte appearance and differentiated shelf appeal
- Good runnability on HFFS and VFFS machines
- Good printability and suitable for lamination with other substrates
- Non toxic suitable for food contact applications

### APPLICATIONS

To be used as top reverse printed layer in laminate structures;

- Confectionary (Chocolate/ Gum/ Sugar)
- Health & beauty care
- Bakery (Biscuits/cookie/crackers)
- Chips/ Snacks/ Pasta

### NOMENCLATURE

H1ELDTTI-MO - Printable glossy surface Inside & Corona treated Matty surface Outside  
H1ELDTTO-MI - Printable glossy surface Outside & Corona treated Matty surface Inside

## PROVISIONAL

PROPERTIES		REF.	15	17	18	20	25	30	UNITS	TEST METHOD
GENERAL	Thickness	-	15	17	18	20	25	30	μ	Internal Method
	Density	-	0.85	0.85	0.85	0.85	0.85	0.85	g/cc	Internal Method
	GSM	-	12.8	14.5	15.3	17.0	21.3	25.5	gm/m <sup>2</sup>	Internal Method
	Yield	-	78.4	69.2	65.4	58.8	47.1	39.2	m <sup>2</sup> /kg	Internal Method
OPTICAL	Haze	-				75			%	ASTM D 1003
	Gloss (Matt side)	-				10			GU	ASTM D 2457
SURFACE	Wetting Tension	Gloss side				40*			dyne/cm	ASTM D 2578
		Matt side				38*			dyne/cm	ASTM D 2578
	COF (Dynamic)	Matt / Matt				0.40			-	ASTM D 1894
		Gloss / Gloss				0.45			-	ASTM D 1894
MECHANICAL	Tensile Strength (at break)	MD				1200			Kg/cm <sup>2</sup>	ASTM D 882
		TD				2500				
	Elongation (at break)	MD				170			%	ASTM D 882
		TD				60				
	Modulus	MD				18000			Kg/cm <sup>2</sup>	ASTM D 882
		TD				28000				
THERMAL	Thermal Shrinkage	MD				4			%	ASTM D 1204
		TD				2				

\* 38 dyne/cm guaranteed for 4 months & 36 dyne/cm guaranteed for 6 months from delivery in controlled ambient condition as per below storage guidelines.

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

#### GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within three months of receipt. OPP films should be allowed to reach operating room temperature 24 hours before use.

#### FOOD CONTACT

OPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.\*

#### SAFETY

Compliance with industrial health and safety standards. OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

#### CAUTIONS

- Film characteristics are maintained for six months from the date of invoice except for corona treated layer surface tension
- Please make sure printing surface is well dried before lamination