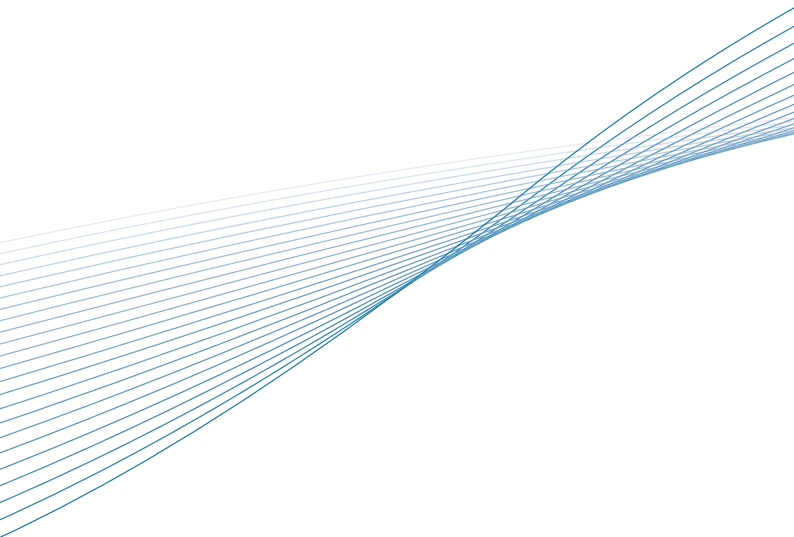


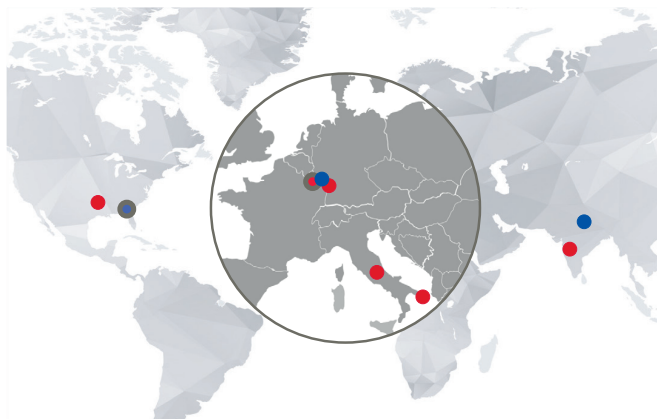
# Product Portfolio Overview In Mould Labeling Films

EUROPE | MIDDLE EAST | AFRICA | ASIA PACIFIC



## ABOUT US

### Global footprint



- Production Sites
- Production Site with Technology Centre
- Regional Headquarter
- Regional Headquarter & Production Site with Technology Centre

### Our films are produced in plants that are certified

ISO9001

BRCGS Packaging Materials

ISO 45001 for safety and health management system

ISO 14001 for environment

ISO 50001 for energy

ISCC+ for the Re Range

### Who we are

Jindal Films is an industry leader in the development and manufacture of biaxially oriented polypropylene (BOPP) and polyethylene (BOPE) films designed for flexible packaging labeling, tobacco and technical applications. The Jindal Films product range includes multi-layer clear, white opaque, metalized and water-based coated films.

### Packaging for our planet

Jindal Films offers a wide range of films designed for sustainable flexible packaging and labeling applications, continuously developing the next generation products that are required for the environmentally friendly and sustainable world.

### Label Films

Our exceptional label solutions have been carefully tailored and optimized over time to meet the high performance and cost-effective needs of our customers.

#### Treofan IML:

With over 40 years of expertise, Jindal Films is the leader and continuously developing state-of-the-art film solutions for IML (in mould labelling) applications. Our product portfolio includes transparent, solid white and voided white films and offers a wide range of finishes from glossy to soft touch/orange peel and matt effect, for optimum brand differentiation. We offer solutions suitable for PP as well as for PE injection moulding materials.

#### Key Features:

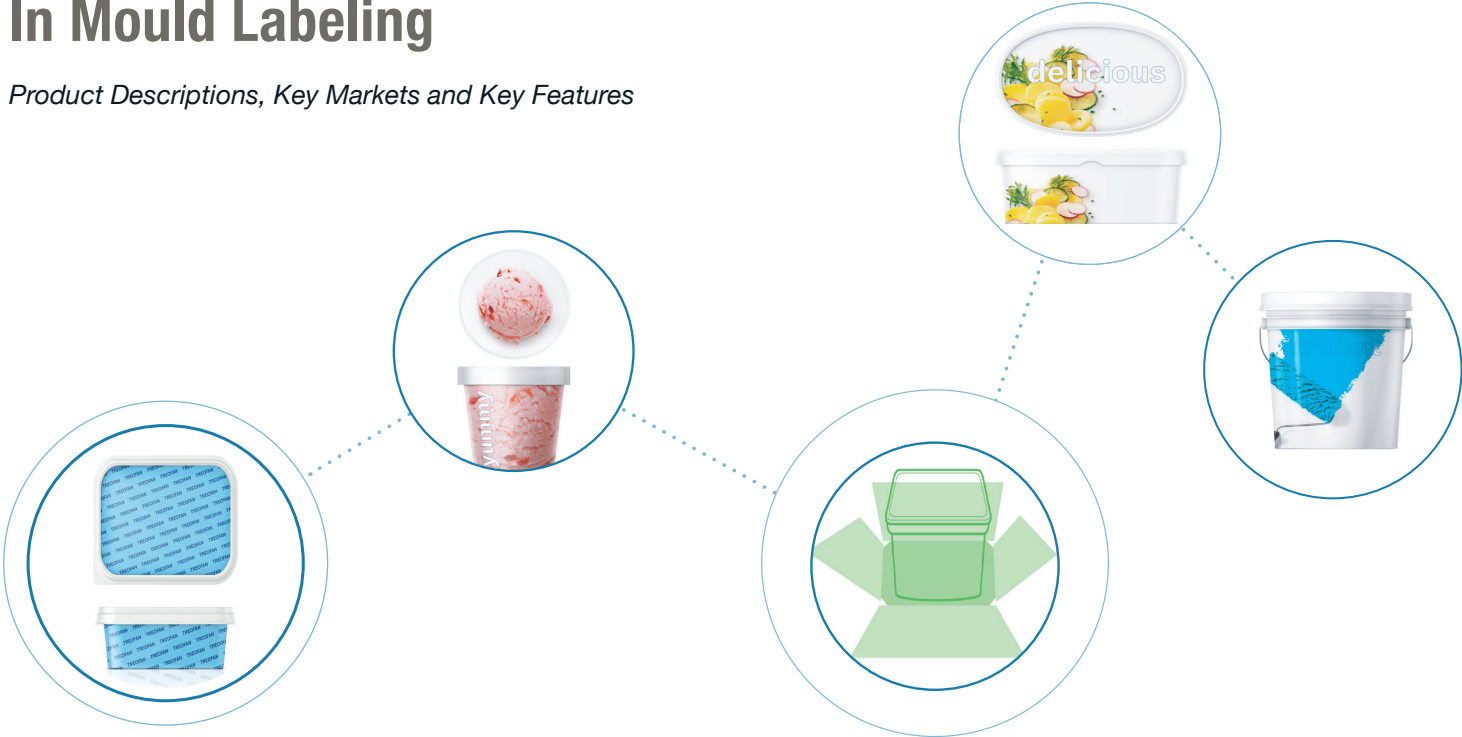
Excellent antistatic properties  
Good web flatness  
Superior machinability and die cutting  
Excellent printability results

#### Main applications of In Mould Labeling films:

Ice Cream • Confectionery • Food/Meat Packaging  
Household products • Chemical Drum Labels  
Industrial

# Product Portfolio Overview In Mould Labeling

*Product Descriptions, Key Markets and Key Features*



## TREOFAN

In Mould Labeling Films

**White Voided**

EUP, ELR

■ Page 6-7

**Thick Solid  
Transparent**

ETH, ETR

■ Page 8-9

**Thick Solid  
White**

EWR

■ Page 10

**White Voided  
IML-TF**

EPT

■ Page 11

## **TREOFAN** In Mould Labeling Films White Voided

### EUP

White voided BOPP film, both sides treated and matt.

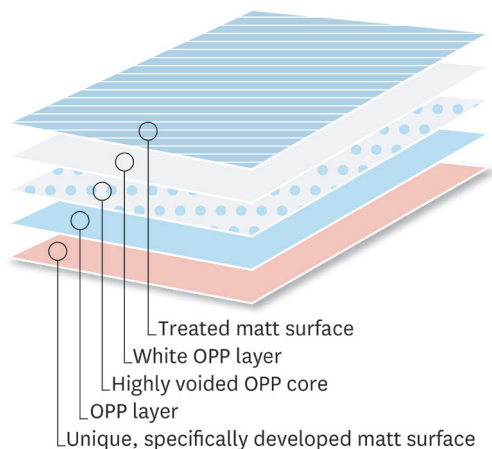
#### Key Markets :

In mould labels for PP and PE Injection Moulding

#### Key Features:

Superior sheet fed performance  
 Distortion-free decoration  
 Unique soft touch effect  
 Ultra high yield grade with outstanding  
 converting characteristics

Thickness (μm)	Unit Weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Density (g/cm <sup>3</sup> )
40	22.0	45.5	0.55
50	27.5	36.4	0.55
60	33.0	30.3	0.55
70	38.5	26	0.55



### ELR

White voided BOPP film, treated on both sides.  
Designed one side matt, one side glossy.

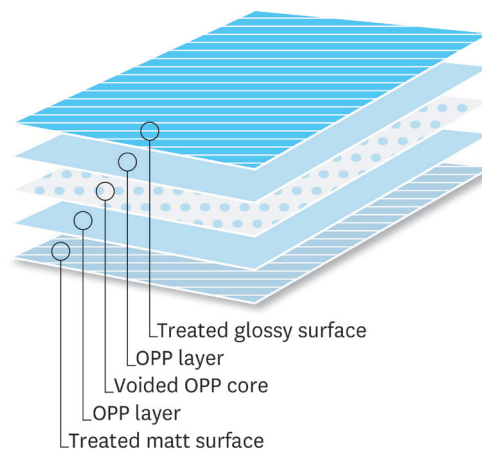
#### Key Markets :

Large sheet conversion for large size labels with glossy finish after moulding

#### Key Features :

High performance for large sheet conversion  
 Glossy finish after moulding  
 Yield advantage against competitive solutions

Thickness (μm)	Unit Weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Density (g/cm <sup>3</sup> )
58	51	19.6	0.88
60	59.8	16.7	0.88



## **TREOFAN** In Mould Labeling Films Thick Solid - Transparent

### ETH

Transparent BOPP film treated and glossy on both sides.

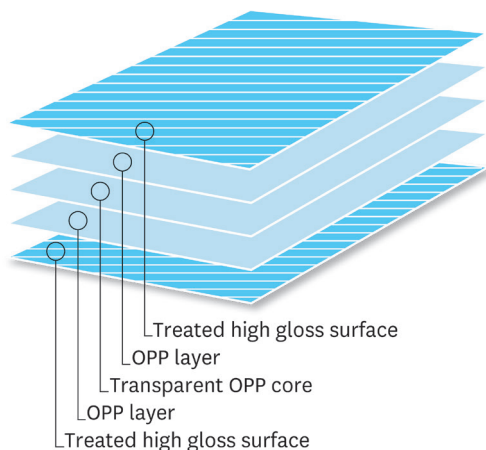
#### Key Markets :

In mould labels for PP and PE Injection Moulding

#### Key Features :

Superior optics resulting in “no-label look”  
Superior conversion efficiencies  
Excellent optics, glossy finish after moulding

Thickness ( $\mu\text{m}$ )	Unit Weight ( $\text{g}/\text{m}^2$ )	Yield ( $\text{m}^2/\text{kg}$ )	Density ( $\text{g}/\text{cm}^3$ )
40	27.5	36.4	0.91
50*	45.5	22.0	0.91
56	51.0	19.6	0.91



### ETR

Transparent BOPP film, treated on both sides.  
One side is matt, one side glossy.

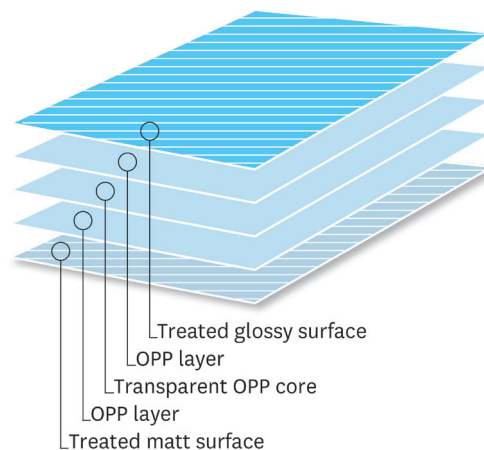
#### Key Markets :

In mould labels for PP and PE Injection Moulding

#### Key Features :

Transparent one side matt, one side glossy  
Excellent conversion efficiencies  
Glossy finish after moulding

Thickness ( $\mu\text{m}$ )	Unit Weight ( $\text{g}/\text{m}^2$ )	Yield ( $\text{m}^2/\text{kg}$ )	Density ( $\text{g}/\text{cm}^3$ )
56	51.0	19.6	0.91



## ⋮ **TREOFAN** In Mould Labeling Films Thick Solid White

### EWR

Solid white BOPP film, treated on both sides.  
One side is matt, one side is glossy.

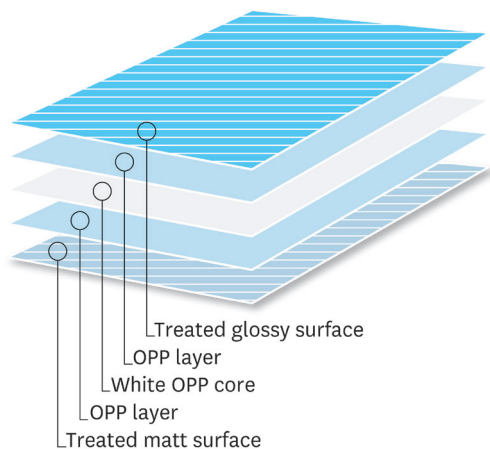
#### Key Markets :

In mould labels for PP and  
PE Injection Moulding with glossy finish

#### Key Features :

Solid white  
One side matt, one side glossy  
Glossy finish after moulding

Thickness (μm)	Unit Weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Density (g/cm <sup>3</sup> )
50	48.0	20.8	0.96
56	53.8	18.6	0.96



## ⋮ **TREOFAN** In Mould Labeling Films White Voided IML-TF

### EPT

White voided BOPP film, treated on one side.  
Matt on both sides.

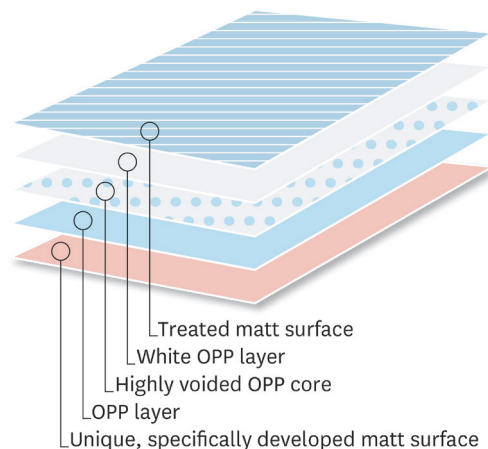
#### Key Markets :

In Mould Labeling-Thermoforming Process

#### Key Features :

Unique, specifically developed matt surface  
Superior yield over competitive products  
Soft touch effect after moulding  
Improved sheet fed performance

Thickness (μm)	Unit Weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Density (g/cm <sup>3</sup> )
60	33.0	30.3	0.55
80*	44.0	22.7	0.55

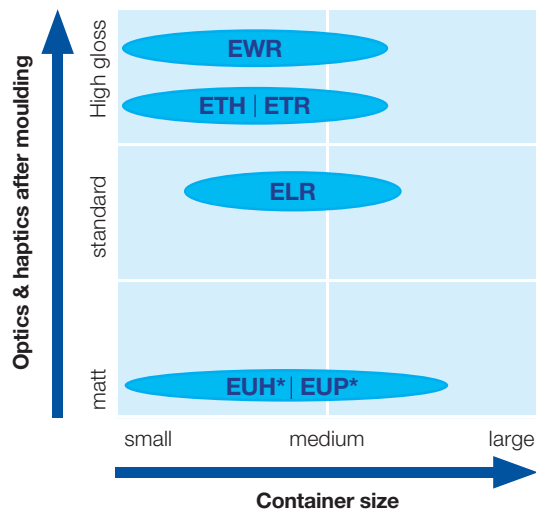


# :: **TREOFAN** Application Overview IML Which Product for which Application?

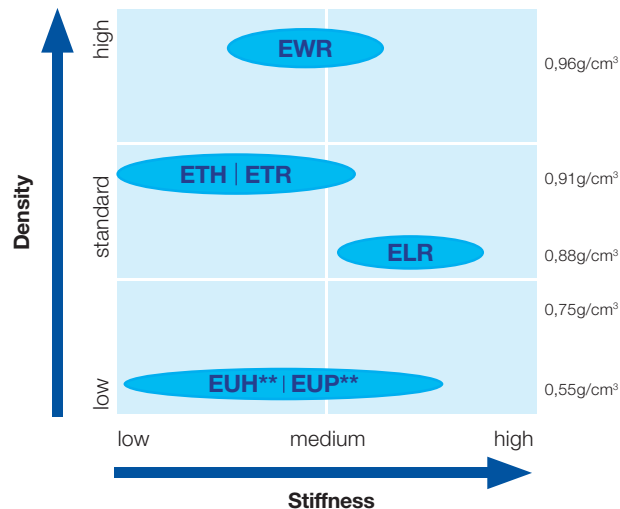
IML-IM film type	EUP	ELR	ETH	ETR	EWR
Optical characteristics	white voided	white voided	clear	matt	solid white
<b>Container thickness &amp; shape</b>					
Thin walled container	●	▲	▲	▲	▲
Thick walled container	●	●	●	●	●
Symmetric container shape	●	▲	▲	▲	▲
Unsymmetric container shape	●				
<b>Bucket / pail size</b>					
Up to 5 litres	++	++	++	++	++
Up to 10 litres	+	++	+	+	+
Up to 25 litres	+	++			
<b>Optics &amp; haptics after moulding</b>					
“Soft touch” effect, matt label surface	++				
High gloss finish		+	++	++	++
Standard gloss finish					

▲ = Products suitable for symmetrical shaped thin walled containers

● = Products suitable for container thickness and container shape categories



\*depending on container shape



\*\* depending on film gauge

**TREOFAN** In Mould Labeling Films



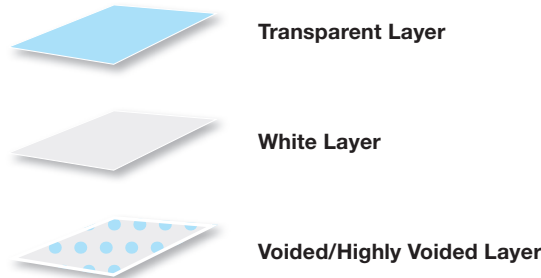
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**Films Illustrations Colour Coding**

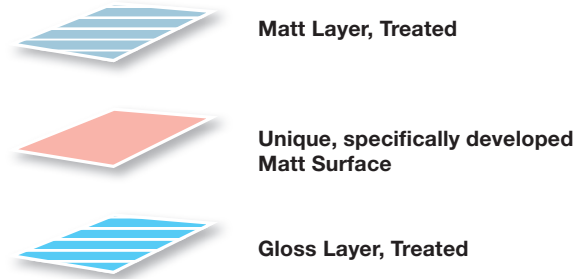
Surface Layer Outside:



Core Layer:



Surface Layer Inside:







**[www.jindalfilms.com](http://www.jindalfilms.com)**

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