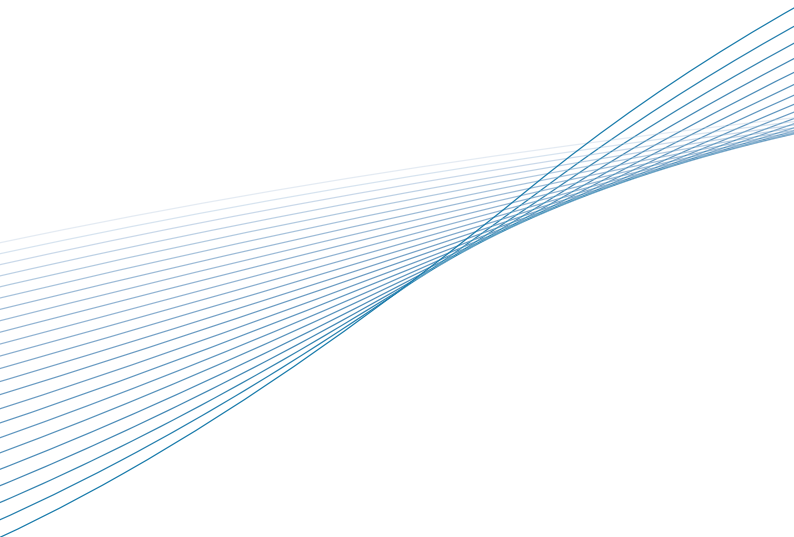
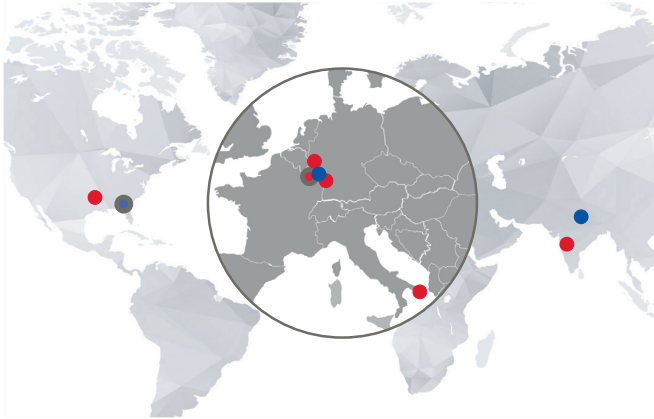


Product Portfolio Overview In Mould Labeling Films



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

ISO 9001

BRCGS Packaging Materials.

ISO 45001 for safety and health management system

ISO 14001 for environment

ISO 50001 for energy

ISCCT+ 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:

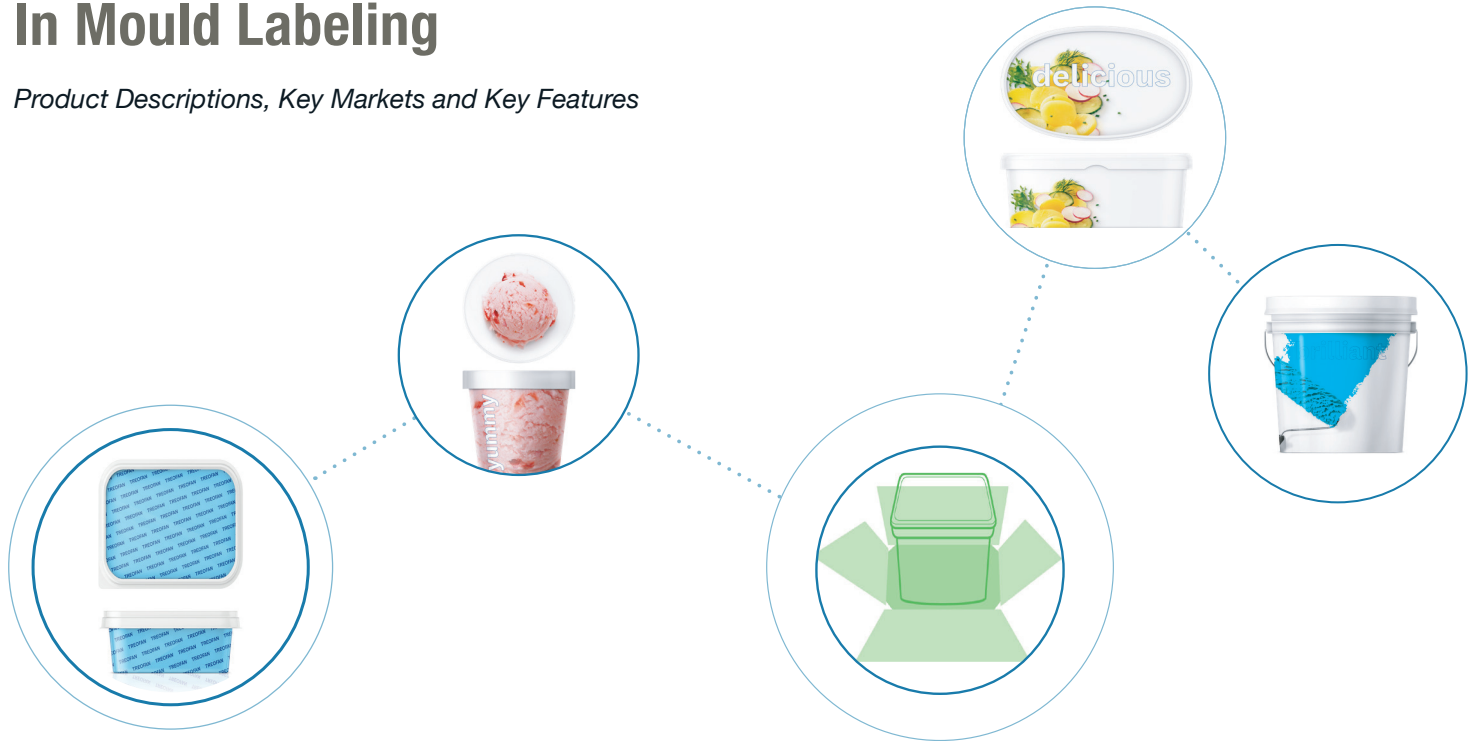
Excellent antistatic properties
Good web flatness
Superior machinability and die cutting
Excellent printability results

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

EUH, EUP, ELR

■ Page 6-8

Thick Solid Transparent

ETH, ETR

■ Page 10-11

Thick Solid White

EWR

■ Page 12

White Voided

EPT

■ Page 13

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

EUH

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

Key Markets:

In mould labels for PP and PE Injection Moulding

Packaging Formats:

Ultra high yield grade
Excellent conversion performance
Distortion-free decoration
Unique soft touch effect

EUP

White voided BOPP film, both sides treated and matt.

Key Markets:

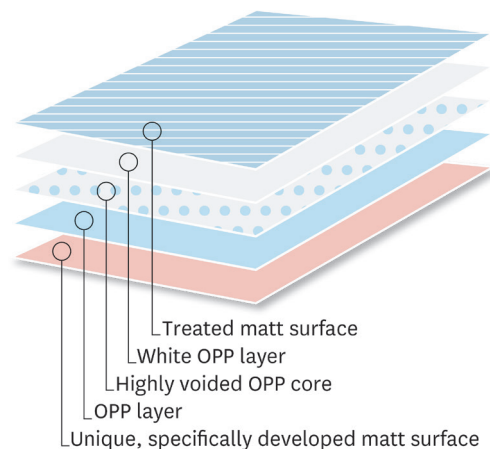
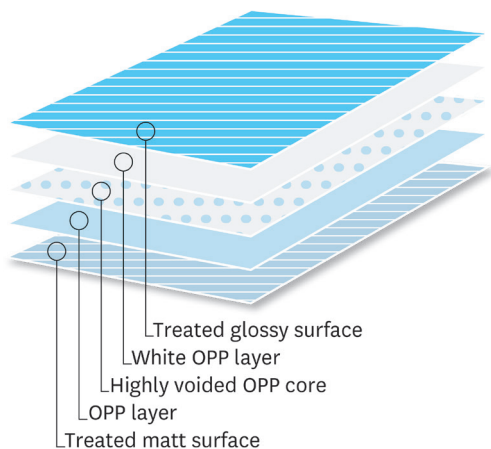
In mould labels for PP and PE Injection Moulding

Packaging Formats:

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 ²)	Yield (m ² /kg)	Density (g/cm ³)
60	33.0	30.3	0.55
70	38.5	26.0	0.55
75	41.3	24.2	0.55

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



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

ELR

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

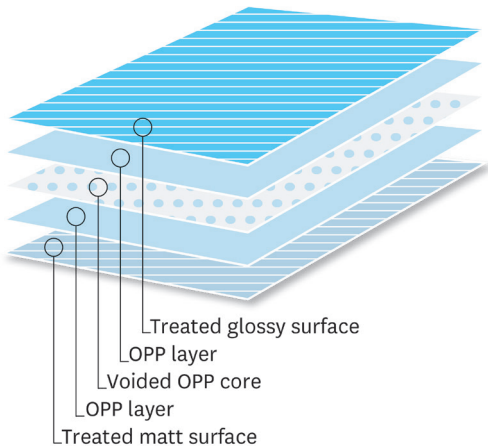
Key Markets:

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

Packaging Formats:

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

Thickness (µm)	Unit Weight (g/m ²)	Yield (m ² /kg)	Density (g/cm ³)
58	51	19.6	0.88
68	59.8	16.7	0.88



NOTES

A vertical column of 20 horizontal bars, alternating between light blue and white, intended for handwritten notes.

■ **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

Packaging Formats:

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

ETR

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

Key Markets:

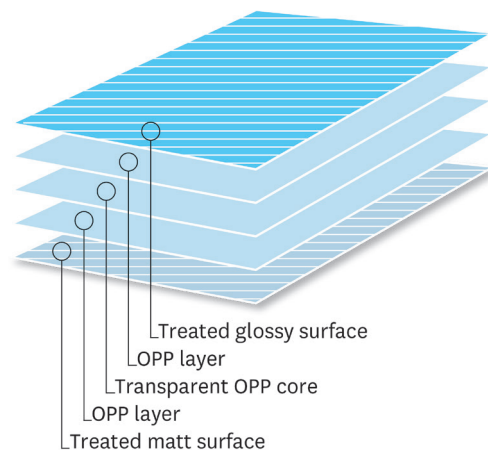
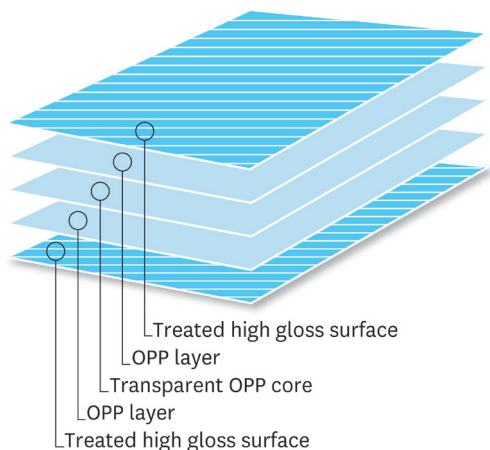
In mould labels for PP and PE Injection Moulding

Packaging Formats:

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

Thickness (µm)	Unit Weight (g/m ²)	Yield (m ² /kg)	Density (g/cm ³)
50	45.5	22.0	0.91
56	51.0	19.6	0.91

Thickness (µm)	Unit Weight (g/m ²)	Yield (m ² /kg)	Density (g/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.

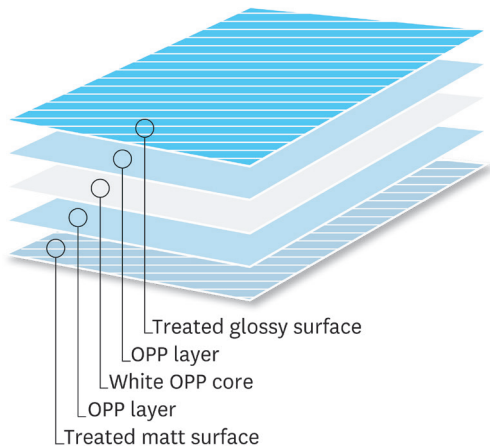
Key Markets:

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

Packaging Formats:

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

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



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

EPT

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

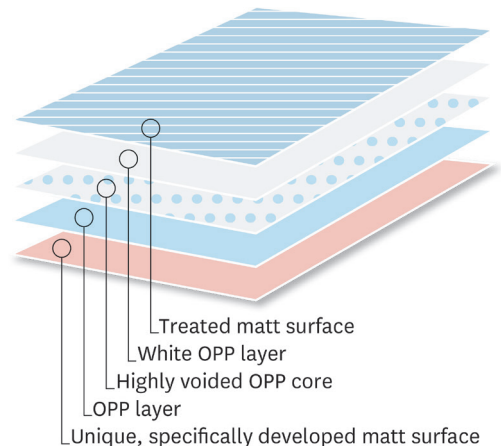
Key Markets:

In Mould Labeling-Thermoforming Process

Packaging Formats:

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

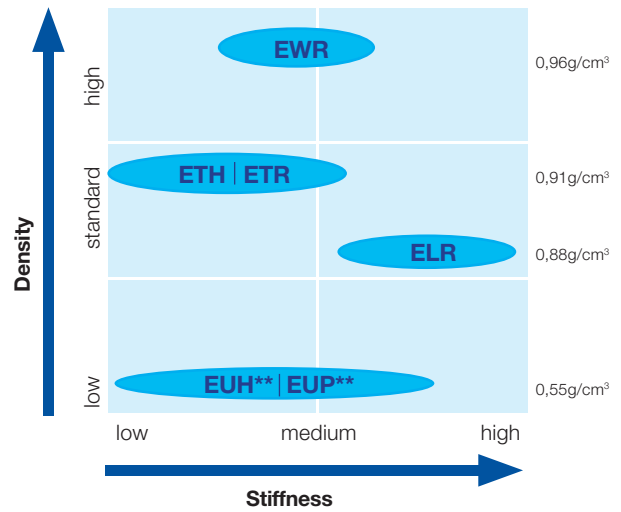
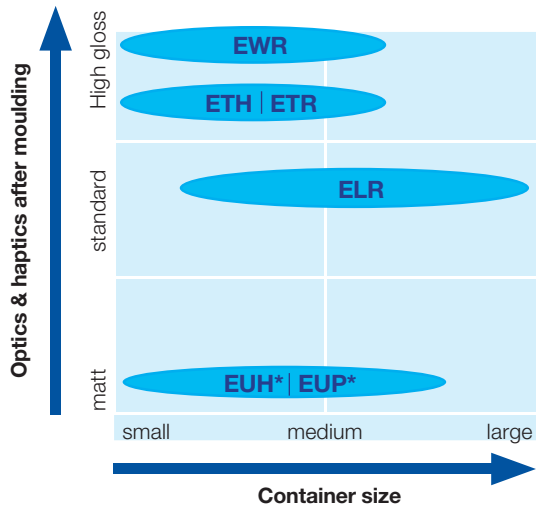
Thickness (µm)	Unit Weight (g/m ²)	Yield (m ² /kg)	Density (g/cm ³)
60	33.0	30.3	0.55



TREOFAN Application Overview IML
Which Product for which Application?

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

▲ = Products suitable for symmetrical shaped thin walled containers



*depending on container shape | ** depending on film gauge

■ **TREOFAN** In Mould Labeling Films



© May 2023 Jindal Films. Jindal Films, the Jindal Films' logo, and other product or service names used herein are trademarks of Jindal Films, unless indicated otherwise. You may not upload, display, publish, license, post, point to, frame, transmit or distribute either this document or its information, whether in whole or in part, without Jindal Films' prior written authorization. To the extent Jindal Films provides prior written authorization, the user may use the document or its information only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. Any data included herein may be based upon: analyses of representative samples and not the actual product shipped, typical values, or otherwise. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We base the information on data believed to be reliable, but we do not represent, warrant, or otherwise guarantee the accuracy, reliability, or completeness of this information; nor do we warrant, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, or suitability of the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of, or related to, anyone using or relying on any of the information in this document. This document is not an endorsement of any non-Jindal Films' product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "Jindal Films" and "Jindal" are each used for convenience, and may include Films Americas LLC, Jindal Films Americas LLC, Films Europe S.à.r.l., Jindal Films Virton SPRL, Jindal Films India Ltd., or any companies affiliated with them in the production and sale of film products. There are a number of such affiliated companies, some with names including "Jindal" or "Films" and some not. Neither these terms and conditions, nor anything else in this document, is intended to override or supersede the legal separateness of those affiliated companies and responsibility for local action and accountability remains with them.

Films Illustrations Colour Coding

Surface Layer Outside:



Gloss Layer, Treated



Matt Layer, Treated

Core Layer:



Transparent Layer



White Layer



Voiled/Highly Voiled Layer

Surface Layer Inside:



Matt Layer, Treated



**Unique, specifically developed
Matt Surface**



Gloss Layer, Treated



www.jindalfilms.com

Jindal Films Europe

11, rue de l'Industrie
L-8399 Windhof
Luxembourg
T +352 45 102211
info@jindalfilms.com

Head Office Treofan Group

Treofan Germany GmbH & Co. KG
Bergstrasse
66539 Neunkirchen
Germany
T +49 (0) 6821 – 4000
Mail info@jindalfilms.com