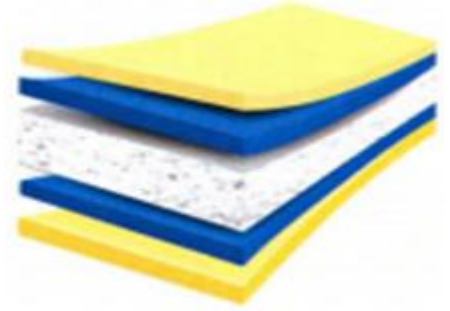
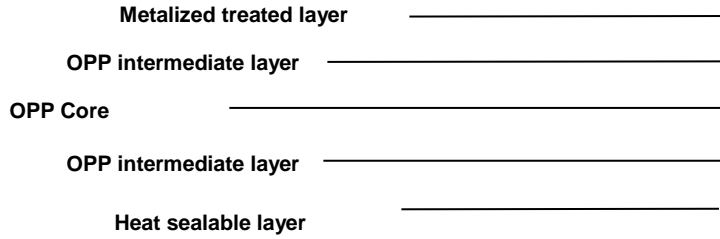


## ICO MTZ

### Metalized Coextruded Bi-oriented Polypropylene Film



#### Main Characteristics

- Excellent moisture barrier properties
- High gas barrier property
- High light barrier property
- Heat sealable on non-metalized side
- Excellent shelf life
- Suitable for food contact

#### Typical Applications

- Low thickness film is typically laminated on the metalized side with ICO EX (for example, chips and snacks packaging)
- Higher thickness film is normally used as web with printing on metalized side (for example ice cream packaging)
- Rotogravure and flexographic printing on metalized side
- The film is suitable for deep freeze as low as - 30 C

#### Packing

	Core diameter	Outer diameter	Note
Vertical	152 mm (6") 76 mm (3")	≤ 550 mm	≤ 700 mm – two or more rows >700mm - one row
Horizontal	152 mm (6") 76 mm (3")	≤ 770 mm	

#### Joints

Number of joints per reel	** max. 1 for reels up to 580 mm O/D ** max. 2 for reels 580 mm and up
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# ICO MTZ

Properties	Tolerance	Ref	Typical Values							Unit	Test Method
<b>Thickness</b>	(+ / -) 3%		15	18	20	25	30	35	40	micron	ASTM D 2673
<b>Unit Weight</b>	(+ / -) 3%		13.7	16.4	18.2	22.8	27.3	31.9	36.4	gm/m <sup>2</sup>	
<b>Yield</b>	(+ / -) 3%		73.3	61.1	55	44	36.6	31.5	27.5	m <sup>2</sup> /Kg	
<b>Tensile Strength</b>	Min.	MD	140							N/mm <sup>2</sup>	ASTM D882
	Min.	TD	260								
<b>Elongation At Break</b>	Max.	MD	200							%	
	Max.	TD	60								
<b>Coefficient Of Friction</b>	Max.	Film/film	0.3								ASTM D 1894
<b>Optical Density</b>	Min.		2							%	ASTM D 1003
<b>Gloss</b>	Min.		> 100							G.U.	ASTM D 2457
<b>Dimensional Stability</b>	Max.	MD	5							%	120°C - 5 min in air oven
	Max.	TD	3								
<b>Heat Seal Range ( Untreated Side )</b>			105 - 145							C	OPMA Method
<b>Heat Seal Strength</b>	Min.	Film/film	200	200	200	200	250	250	250	gm/cm	130C/1sec./1bar
<b>Water Vapour Permeability</b>	Max.		0.8							gm/ m <sup>2</sup> d	ASTM F1249 (38°C - 90% RH)
<b>Oxygen Permeability</b>	Max.		120							cm <sup>3</sup> / m <sup>2</sup> d	ASTMD3985 23°C 0% RH
<b>Density</b>			0.91							gm / cm <sup>3</sup>	ASTM D 1505
<b>Wetting Tension ( Treatment )</b>	Min.		38							dyne /cm	ASTM D 2578
<b>Tolerance</b>											
<b>Weight</b>	< 1.0 Ton									± 20 %	
	> 1.0 Ton To < 10.0 Ton									± 10 %	
	> 10.0 Ton									± 5 %	
<b>Tolerance in width</b>	( + / - ) 2 mm										

## Film storage

It is recommended that the material is stocked in a dry area with a temperature below 30°C in order to restrain the deterioration of the film properties in general. The film is suitable for usage up to 6 months from the date of delivery except treatment 3 months from the date of delivery.

## Treatment

The film is generally supplied outside treated TO. The film can be supplied inside treated TI or both sides TB depending on agreement with our sales department.

## Printability / Lamination

It is recommended for in line refreshment of metallized surface before the converting processes for the film

## Food Contact

The Film is compliant with EC and FDA regulations. Specific documents and safety data sheet are available upon request.

The above information is the result of laboratory test which are applied on samples from standard production. Since the varying conditions under which our products used are beyond our control, all of the above results are without guarantee and warranty

Last Update: 1/8/2025

ISO 9001:2015



ISO 45001:2018



ISO 14001:2015



BRCGS

