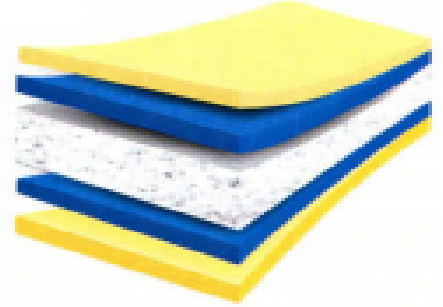


ICO MTZ HB

Metalized Coextruded High Barrier Bi-oriented Polypropylene Film

Metalized treated layer _____
 OPP intermediate layer _____
 OPP Core _____
 OPP intermediate layer _____
 Heat sealable layer _____



Main Characteristics

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

Typical Applications

- Very high barrier
- 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
- for simpler and lighter packaging to extend and maintain shelf life of the packaged products.

	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	

Packing

Joints

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

ICO MTZ HB

Properties	Tolerance	Ref	Typical Values			Unit	Test Method
Thickness	(+ / -) 3%		18	20	30	micron	ASTM D 2673
Unit Weight	(+ / -) 3%		16.4	18.2	27.3	gm/m ²	
Yield	(+ / -) 3%		61.1	55	36.6	m ² /Kg	
Tensile Strength	Min.	MD	140			N/mm ²	ASTM D882
	Min.	TD	260				
Elongation At Break	Max.	MD	200			%	
	Max.	TD	60				
Coefficient Of Friction	Max.	Film/film	0.3				ASTM D 1894
Optical Density	Min.		2.5			%	ASTM D 1003
Gloss	Min.		> 100			G.U.	ASTM D 2457
Dimensional Stability	Max.	MD	5			%	120°C - 5 min in air oven
	Max.	TD	3				
Heat Seal Range (Untreated Side)			105 - 145			C	OPMA Method
Heat Seal Strength	Min.	Film/film	180	200	250	gm/cm	130C/1sec./1bar
Water Vapour Permeability	Max.		0.3			gm/ m ² d	ASTM F1249 (38°C - 90% RH)
Oxygen Permeability	Max.		40			cm ³ / m ² d	ASTMD3985 23°C 0% RH
Density			0.91			gm / cm ³	ASTM D 1505
Wetting Tension (Treatment)	Min.		38			dyne /cm	ASTM D 2578
Tolerance							
Weight	< 1.0 Ton					± 20 %	
	> 1.0 Ton To < 10.0 Ton					± 10 %	
	> 10.0 Ton					± 5 %	
Tolerance in width	(+ / -) 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: 02/01/2022