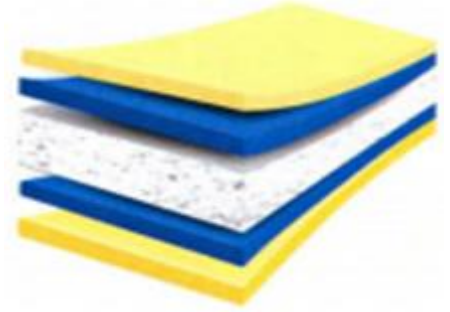
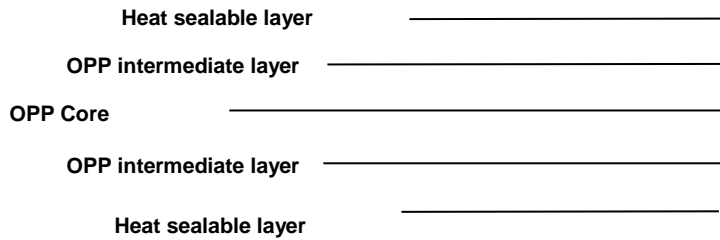


ICO EX

Transparent Coextruded Bi-oriented Polypropylene Film



Main Characteristics

- Two sides heat sealable with excellent hot tack
- High transparency
- Excellent ink adhesion on treated side.
- High resistance to oil, grease, chemical, puncture and abrasion

Typical Applications

- Rotogravure and flexographic printing
- Lamination (in particular low thickness film) both with itself and other film
- Single web structure (in particular high thickness film)
- Horizontal and vertical packaging machine (HFFS - VFFS)
- General overwrapping

Packing

	Core diameter		
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 EX

Properties	Tolerance	Ref	Typical Values								Unit	Test Method
Thickness	(+ / -) 3%		15	17	18	20	25	30	35	40	micron	ASTM D 2673
Unit Weight	(+ / -) 3%		13.7	15.5	16.4	18.2	22.8	27.3	31.9	36.4	gm/m ²	
Yield	(+ / -) 3%		73.3	64.6	61.1	55	44	36.6	31.5	27.5	m ² /Kg	
Tensile Strength	Min.	MD	120								N/mm ²	ASTM D882
	Min.	TD	240									
Elongation At Break	Max.	MD	200								%	
	Max.	TD	60									
Coefficient Of Friction	Max.	Film/film	0.3									ASTM D 1894
Haze	Max.		2.5								%	ASTM D 1003
Gloss	Min.		85								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	200	200	200	200	200	250	250	300	Gm/cm	130C/1sec./1bar
Water Vapour Permeability	Max.		10.7	9.5	9.2	8.3	6.6	5.5	4.7	4.1	gm/ m ² d	ASTM F1249 (38°C - 90% RH)
Oxygen Permeability	Max.		2700	2500	2400	2200	1800	1500	1300	1100	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.

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.

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

