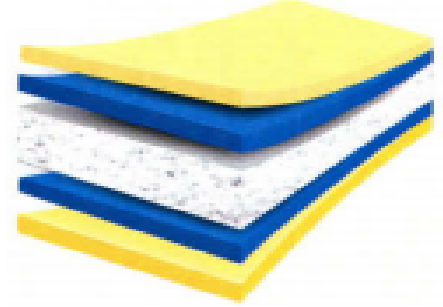
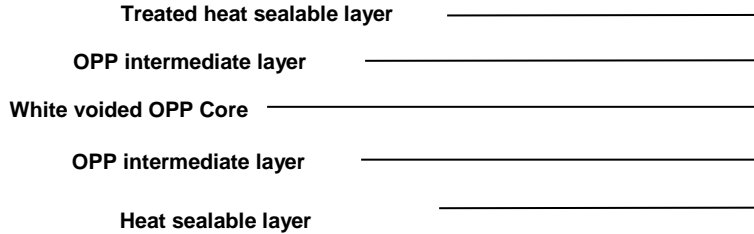


## ICO PN

### White Voided Pearlized

### Coextruded Bi-oriented Polypropylene Film



#### Main Characteristics

- pearlescent appearance with good opacity
- Two sides heat sealable
- High stiffness.
- Excellent ink adhesion on treated side Low density, High yield
- High resistance to oil ,grease , chemical ,puncture and abrasion
- Whiteness eliminates need of white ink
- Suitable for Ice cream application

#### 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 )

#### 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
---------------------------	---

## ICO PN

Properties	Tolerance	Ref	Typical Values					Unit	Test Method
Thickness	(+ / -) 4%		30	35	38	40	50	micron	ASTM D 2673
Unit Weight	(+ / -) 4%		21	24.5	26.6	28	35	gm/m <sup>2</sup>	
Yield	(+ / -) 4%		47.6	40.8	37.6	35.7	28.6	m <sup>2</sup> /Kg	
Tensile Strength	Min.	MD	60					N/mm <sup>2</sup>	ASTM D882
	Min.	TD	130						
Elongation At Break	Max.	MD	160					%	
	Max.	TD	40						
Coefficient Of Friction	Max.	Film/film	0.45						ASTM D 1894
Optical Density	Min.		0.45	0.48	0.49	0.5	0.53	%	TOBIAS Densitometer
Gloss	Min.		50					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	170					Gm/cm	130C/1sec./1bar
Water Vapour Permeability	Max.		6.2	5.2	5	4.7	4.3	gm/ m <sup>2</sup> d	ASTM F1249 (38°C - 90% RH)
Oxygen Permeability	Max.		1800	1550	1500	1400	1300	cm <sup>3</sup> / m <sup>2</sup> d	ASTMD3985 23°C 0% RH
Density	( + / - ) 0.05		0.7					gm / cm <sup>3</sup>	ASTM D 1505
Wetting Tension ( Treatment )	Min.		38					dyne /cm	ASTM D 2578
<b>Tolerance</b>									
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: 02/01/2022