

# CF301

## White Voided Cold Seal Film



WHITE VOIDED BOPP FILM

**DESCRIPTION :**

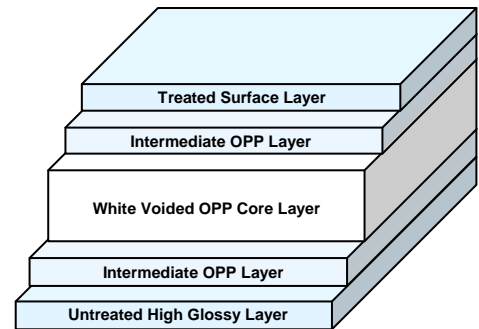
**Gulf Pack CF301** is a white voided film, with one side high gloss specially designed for cold seal application.

**PRODUCT FEATURES :**

Higher yield due to lower density  
Excellent opacity & whiteness  
Excellent printability

**APPLICATIONS:**

Suitable for cold seal adhesive  
Rotogravure and flexographic printing  
Lamination  
HFFS and VFFS packaging



PROPERTIES		UNIT	TYPICAL VALUES			TEST METHOD.
PHYSICAL	Thickness	Microns	33	38	47	ASTM D 374
		Gauge	132	152	188	
	Grammage	g/m <sup>2</sup>	20.46	23.56	29.14	*GPIM
		lbs/ream	12.5	14.4	17.9	
	Yield	m <sup>2</sup> /kg	48.80	42.40	34.30	
		in <sup>2</sup> /lb	34,400	29,900	24,166	
	Density	g/cc	0.62			
Coefficient of Friction (Film/Film)		0.35	0.35	0.35	ASTM D 1894	
Surface Tension (Treated Side)	dynes/cm	38	38	38	ASTM D 2578	
OPTICAL	Opacity	%	72	75	77	ASTM D589-97
	Gloss (45°)		90			ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	8			ASTM D 882
		*TD	16			
		MD	11,376			
		TD	22,752			
	Elongation at Break	MD	135			ASTM D 882
		TD	40			
	Modulus of Elasticity	MD	120			ASTM D 882
		TD	205			
MD		170,640				
TD		291,510				
THERMAL	Thermal Shrinkage	MD	< 4.0			GPIM (120°C (248°F), 5 min, air)
		TD	< 2.0			
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	7.5	6.5	5.5	ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	0.48	0.42	0.35	

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transverse Direction

**Gulf Pack CF301** films comply with EU Regulation 10/2011/EC and USA FDA Code of Federal Regulations CFR21 section 177.1520 (c) 1.1 and are suitable for use in packaging, carrying and transporting foodstuffs.

The information contained in this technical leaflet illustrates typical values only and are to the best of our knowledge. Since the conditions under which our films may be used are beyond our control, such values are declared without warranty or guarantee.

Bi-axially oriented polypropylene films age with time and will exhibit deterioration of some properties if not stored in a suitable environment at a temperature 30°C or below. We strongly advise our customers to use recommended storage conditions and consume products before 6 months from date of production in our plant.

**Gulf Pack CF301** standard surface treatment location is on the outer side (O); other treatment preference can be arranged upon agreement with the sales representative before order processing.

Detailed advice regarding other specific applications of **Gulf Pack CF301** and other films in the Gulf Pack range is available upon request.