

# HF330

## White Voided Heat Sealable Film



WHITE VOIDED BOPP FILM

**DESCRIPTION :**

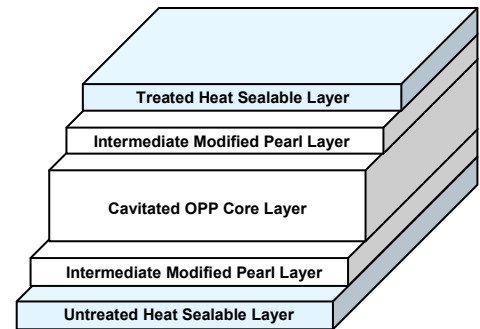
**Gulf Pack HF330** is a white voided film, both side heat sealable, treated

**PRODUCT FEATURES:**

- Aesthetic pearl luster appearance
- Heat sealable both side
- Good opacity
- Good antistatic properties
- Good dead fold characteristics

**APPLICATIONS:**

- Rotogravure and Flexographic printing
- Lamination
- Single web structure
- HFFS & VFFS packaging



PROPERTIES		UNIT	TYPICAL VALUES					TEST METHOD.
PHYSICAL	Thickness	Microns	30	35	40	45	50	ASTM D 374
		Gauge	120	140	160	180	200	
	Grammage	g/m <sup>2</sup>	21.90	25.55	29.20	32.85	36.50	*GPIM
		lbs/ream	13.45	15.70	17.94	20.18	22.43	
	Yield	m <sup>2</sup> /kg	45.66	39.14	34.24	30.44	27.40	
		in <sup>2</sup> /lb	31,170	27,576	24,124	21,446	19,304	
	Density	g/cc	0.73					
Coefficient of Friction (Film/Film)		0.35					ASTM D 1894	
Surface Tension (Treated Side)	dynes/cm	38					ASTM D 2578	
OPTICAL	Opacity	%	70		75		80	ASTM D589-97
	Gloss (45°)		50		55		58	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						
THERMAL	Thermal Shrinkage	MD	< 4.0					GPIM (120°C (248°F), 5 min, air)
		TD	< 2.0					
	Heat Seal Range	°C (°F)	105 – 140 (221 – 284)					GPIM
	Heat Seal Strength (Film/Film)	g/15mm	280					GPIM (130°C, 1bar, 1sec)
lb/0.59in		0.66					GPIM (266°F, 14.5psi, 1 sec)	
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	6.9 - 7.1		6.3 - 6.4		ASTM F 1249 (38°C / 90% RH)	
		g/100in <sup>2</sup> /24h	0.44 – 0.45		0.40 – 0.41			

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transverse Direction

**Gulf Pack HF330** 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.

Detailed advice regarding other specific applications of **Gulf Pack HF330** and other films in the Gulf Pack range is available upon request.