

# HF320

White Voided Heat Sealable Film, Ultra High Yield



WHITE VOIDED BOPP FILM

**DESCRIPTION :**

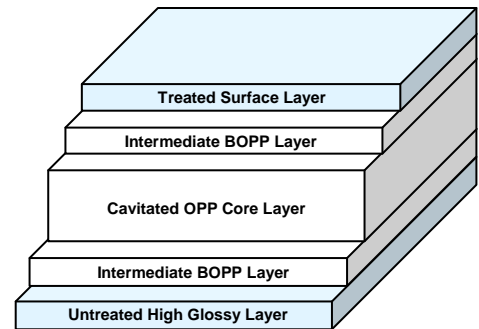
**Gulf Pack HF320** is a white voided heat sealable film with high glossy side and ultra high yield property, one side treated.

**PRODUCT FEATURES:**

Ultra high yield due to very low density  
 Excellent opacity & whiteness  
 Excellent antistatic properties  
 Both sides heat sealable

**APPLICATIONS:**

Rotogravure, Flexographic printing  
 Single web structure  
 Suitable for cold seal adhesive  
 Lamination  
 HFFS and VFFS packaging



PROPERTIES		UNIT	TYPICAL VALUES		TEST METHOD.
PHYSICAL	Thickness	Microns	33	38	ASTM D 374
		Gauge	132	152	
	Grammage	g/m <sup>2</sup>	18.15	20.90	*GPIM
		lbs/ream	11.15	12.84	
	Yield	m <sup>2</sup> /kg	55.10	47.85	
		in <sup>2</sup> /lb	38,820	33,712	
	Density	g/cc	0.55		
Coefficient of Friction (Film/Film)		0.30		ASTM D 1894	
Surface Tension (Treated Side)	dynes/cm	38		ASTM D 2578	
OPTICAL	Opacity	%	72	75	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		
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	300		GPIM (130°C, 1bar, 1sec)
lb/0.59in		0.66		GPIM (266°F, 14.5psi, 1 sec)	

\* GPIM – Gulf Pack Internal Method      \*MD – Machine Direction      \*TD – Transverse Direction

**Gulf Pack HF320** 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 HF320** 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 HF320** and other films in the Gulf Pack range is available upon request.