

# HS(W)

## Heat Sealable White Opaque Film



**DESCRIPTION :**

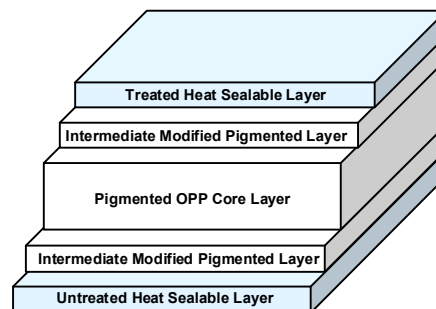
**Gulf Pack HS (W)** is a co-extruded, bi-axially oriented white opaque polypropylene film. Both sides heat sealable, treated to suit printing, coating and lamination purposes. Excellent whiteness and opacity for various food packaging applications.

**PRODUCT FEATURES :**

Whitish finish an ideal background for multi-color printing design.  
 Good heat-sealing with hot tack properties.  
 Good opacity imparts better barrier to light  
 Good resistance to oils, fats & chemicals.  
 Good co-laminates with various substrates as metallized films, PP, PE, PET etc.

**APPLICATIONS :**

Printing and lamination.  
 Packaging bakeries, confectioneries, etc.  
 Pouching and overwrap.



PROPERTIES		UNIT	TYPICAL VALUES				TEST METHOD.
PHYSICAL	Thickness	Microns	20	30	35	40	ASTM D 374
		Gauge	80	120	140	160	
	Grammage	g/m <sup>2</sup>	19.20	28.80	33.60	38.40	*GPIM
		lbs/ream	11.8	17.7	20.6	23.6	
	Yield	m <sup>2</sup> /kg	52.08	34.72	29.76	26.04	
		in <sup>2</sup> /lb	36,700	24,500	21,000	18,300	
Coefficient of Friction (Film/Film)		0.40	0.40	0.40	0.40	ASTM D 1894	
Surface Tension (Treated Side)	dynes/cm	38	38	38	38	ASTM D 2578	
OPTICAL	Opacity	%	63	65	68	70	ASTM D589-97
	Gloss (45°)		50				ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	13				ASTM D 882
		*TD	26				
		MD	18,486				
		TD	36,972				
	Elongation at Break	MD	165				ASTM D 882
		TD	50				
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 – Transversal Direction

**Gulf Pack HS(W)** films comply with the EU Regulation 10/2011/CE and USA FDA Code of federal regulations CFR21 section 177.1520 (c) 1.1 and is suitable for use in packaging, transporting or holding foods.

The information contained in this technical leaflet is to the best of our knowledge & experience. Since the conditions under which our products maybe used are beyond our control, recommendations are made without warranty or guarantee.

Bi-axially oriented polypropylene film aged with time and will exhibit deterioration of properties if it is not stored in a dry environment at a temperature 30°C or below. We highly recommend our customer to use recommended storage condition and consume product before 6 months from date of production in our plant.

Detail advice regarding other specific application of **Gulf Pack HS(W)** and other films in the Gulf Pack range is available upon request.

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