

# LNHS

## Transparent Non Heat Sealable Label Film



**DESCRIPTION :**

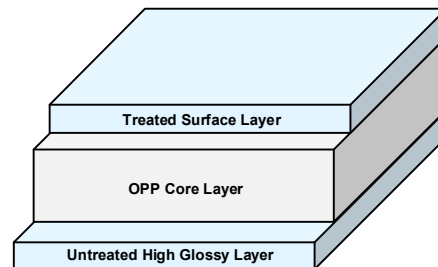
**Gulf Pack LNHS** is a bi-axially oriented polypropylene film with excellent optical and mechanical properties. Developed ideally for cut & stack and wrap around labels for bottling line applications.

**PRODUCT FEATURES :**

High transparency and gloss.  
High mechanical properties.  
Treated side to suit printing and coating  
Excellent adhesion for glue and inks  
Good machinability

**APPLICATIONS :**

Labels for bottling products.



PROPERTIES		UNIT	TYPICAL VALUES						TEST METHOD.	
PHYSICAL	Thickness	Microns	30	33	35	37	38	40	ASTM D 374	
		Gauge	120	132	140	148	152	160		
	Grammage	g/m <sup>2</sup>	27.30	30.03	31.90	33.70	34.60	36.40	*GPIM	
		lbs/ream	16.8	18.5	19.6	20.7	21.2	22.4		
	Yield	m <sup>2</sup> /kg	36.63	33.30	31.40	29.70	28.92	27.48		
		in <sup>2</sup> /lb	25,800	23,500	22,100	21,000	20,400	19,400		
	Coefficient of Friction (Film/Film)		0.35						ASTM D 1894	
	Surface Tension (Treated Side)	dynes/cm	38						ASTM D 2578	
OPTICAL	Haze	%	1.5						ASTM D 1003	
	Gloss (45°)		90						ASTM D 2457	
MECHANICAL	Tensile Strength at Break	*MD	kg/mm <sup>2</sup>	16						ASTM D 882
		*TD		28						
		MD	psi	22,752						
		TD		39,816						
	Elongation at Break	MD	%	155						ASTM D 882
		TD		50						
	Modulus of Elasticity	MD	kg/mm <sup>2</sup>	210						ASTM D 882
		TD		360						
		MD	psi	298,620						
		TD		511,920						
THERMAL	Thermal Shrinkage	MD	%	< 4.0						GPIM (120°C (248°F), 5 min, air)
		TD		< 2.0						

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transversal Direction

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

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