

# NHCF

## Non-Heat Sealable High COF Film



**DESCRIPTION :**

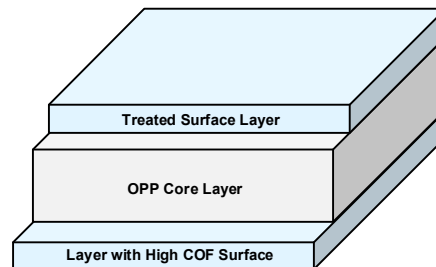
**Gulf Pack NHCF** is a coextruded, bi-axially oriented non heat sealable transparent polypropylene film with high coefficient of friction (COF), excellent optical and mechanical properties.

**PRODUCT FEATURES :**

Superior transparency and high gloss  
 High coefficient of friction.  
 Excellent ink and coating adhesion .  
 Good stiffness and tensile strength.  
 Excellent resistance to oil, grease & chemicals.

**APPLICATIONS :**

Printing & lamination on a wide range of substrates.  
 Top layer for laminated films for large packaging bag application.



PROPERTIES		UNIT	TYPICAL VALUES					TEST METHOD.	
PHYSICAL	Thickness	Microns	15	18	20	25	30	ASTM D 374	
		Gauge	60	72	80	100	120		
	Grammage	g/m <sup>2</sup>	13.65	16.38	18.20	22.75	27.30	*GPIM	
		lbs/ream	8.4	10.1	11.2	14.0	16.8		
	Yield	m <sup>2</sup> /kg	73.26	61.05	54.95	43.96	36.63		
		in <sup>2</sup> /lb	51,600	43,000	38,700	31,000	25,800		
Coefficient of Friction (Film/Film)			0.70					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>	15					ASTM D 882
		*TD		28					
		MD	psi	21,330					
		TD		39,816					
	Elongation at Break	MD	%	155					ASTM D 882
		TD		50					
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 NHCF** 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 may be 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 NHCF** and other films in the Gulf Pack range is available upon request.