

# NF105

Transparent Non-Heat Sealable, Slip Modified Film



**DESCRIPTION:**

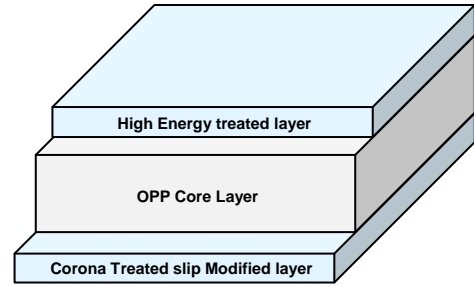
Gulf Pack NF105 is a transparent non heat sealable film, slip modified, treated both side.

**PRODUCT FEATURES:**

Superior transparency and high gloss  
Both side treated  
Excellent hot slip characteristics  
Stable slip  
Excellent extrusion lamination bonds

**APPLICATIONS:**

Outer-Web of packaging laminations  
film/film, film/paper



PROPERTIES		UNIT	TYPICAL VALUES							TEST METHOD.
PHYSICAL	Thickness	Microns	12	17	18	20	25	30	50	ASTM D 374
		Gauge	48	68	72	80	100	120	200	
	Grammage	g/m <sup>2</sup>	10.92	15.47	16.38	18.2	22.75	27.3	45.5	*GPIM
		lbs/ream	6.72	9.55	10.15	11.2	14.0	16.8	27.97	
	Yield	m <sup>2</sup> /kg	91.57	64.64	61.05	54.95	43.96	36.63	22.00	
		in <sup>2</sup> /lb	64,499	45,540	43,012	38,700	31,000	25,800	12,987	
		Coefficient of Friction (Corona treatment side)		0.20						
	Surface Tension (High energy flame Side)	dynes/cm	40							ASTM D 2578
	Surface Tension (Corona treatment Side)		38							ASTM D 2578
OPTICAL	Haze	%	2.0							ASTM D 1003
	Gloss (45°)	°	90							ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	15							ASTM D 882
		*TD	28							
		MD	21,335							
		TD	39,820							
	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							
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	9.2	7.9	7.6	6.0	4.8	3.3	2.0	ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	0.60	0.53	0.48	0.39	0.31	0.21	0.13	

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transverse Direction

Gulf Pack NF105 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 NF105 and other films in the Gulf Pack range is available upon request.