

NM103

Non-Heat Sealable Metallizable Base Film



TRANSPARENT BOPP FILM

DESCRIPTION :

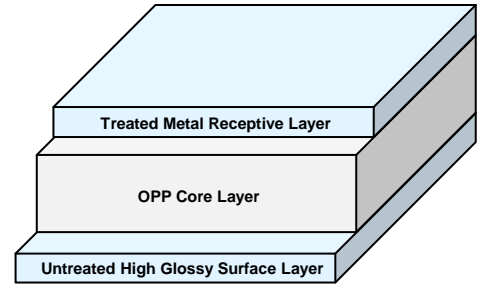
Gulf Pack NM103 is a non heat sealable film with high gloss surface at one side and other side treated, specially designed with metal receptive layer for good aluminum metal adhesion.

PRODUCT FEATURES :

- Good optical and mechanical properties
- Excellent machinability
- Excellent lay flat characteristics
- Good dimensional stability
- Good resistance to oils, fats & chemicals
- Good barrier to moisture, odor & gases

APPLICATIONS :

- Prime substrates for metallization of film
- For printing and decorative packaging



PROPERTIES		UNIT	TYPICAL VALUES				TEST METHOD.
PHYSICAL	Thickness	Microns	15	20	30	35	ASTM D 374
		Gauge	60	80	120	140	
	Grammage	g/m ²	13.65	18.20	27.30	31.85	*GPIM
		lbs/ream	8.4	11.2	16.8	19.6	
	Yield	m ² /kg	73.26	54.95	36.63	31.40	
		in ² /lb	51,600	38,700	25,800	22,100	
	Coefficient of Friction (Film/Film)		0.40				ASTM D 1894
	Surface Tension (Treated Side)	dynes/cm	44				ASTM D 2578
OPTICAL	Haze	%	2.0				ASTM D 1003
	Gloss (45°)		92				ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	15				ASTM D 882
		*TD	27				
		MD	21,330				
		TD	38,394				
	Elongation at Break	MD	170				ASTM D 882
		TD	50				
	Modulus of Elasticity	MD	210				ASTM D 882
		TD	390				
MD		298,620					
TD		554,580					
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 ² /24h	7.5	7.5	7.0	7.0	ASTM F 1249 (38°C / 90% RH)
		g/100in ² /24h	0.48	0.48	0.45	0.45	

* GPIM – Gulf Pack Internal Method

*MD – Machine Direction

*TD – Transverse Direction

Gulf Pack NM103 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 NM103 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 NM103** and other films in the Gulf Pack range is available upon request.