

HM104

Heat Sealable Metallizable Base Film



TRANSPARENT BOPP FILM

DESCRIPTION :

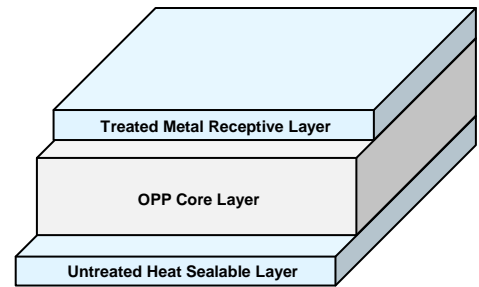
Gulf Pack HM104 is a transparent film with both sides heat sealable, specially designed with metal receptive layer on one side.

PRODUCT FEATURES :

- Metal receptive layer for good aluminum metal adhesion
- Excellent machinability
- Excellent lay flat characteristics
- Good resistance to oils, fats & chemicals
- Good barrier to moisture, odor & gases

APPLICATIONS :

- Prime substrates for film metallization
- Printing and lamination
- Top layer for laminated pasta packaging film



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 ²	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 ² /kg	73.26	61.05	54.95	43.96	36.63	
		in ² /lb	51,600	43,000	38,700	31,000	25,800	
	Coefficient of Friction (Film/Film)		0.40					ASTM D 1894
	Surface Tension (Treated Side)	dynes/cm	44					ASTM D 2578
OPTICAL	Haze	%	2.5					ASTM D 1003
	Gloss (45°)		85					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						
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	275					GPIM (130°C, 1bar, 1sec)
lb/0.59in		0.60					GPIM (266°F, 14.5psi, 1 sec)	

* GPIM – Gulf Pack Internal Method

*MD – Machine Direction

*TD – Transverse Direction

Gulf Pack HM104 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 HM104 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 HM104** and other films in the Gulf Pack range is available upon request.