

HF101

Heat Sealable High Slip Film



DESCRIPTION:

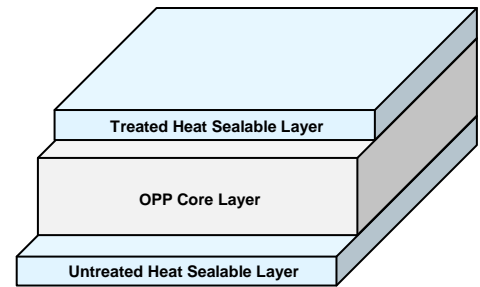
Gulf Pack HF101 is a heat sealable film, specially designed with high slip and low antistatic properties to offer superior machinability.

PRODUCT FEATURES:

- Good slip and low antistatic property
- Superior machinability
- Good optical and mechanical properties
- Good resistance to oils, fats & chemicals
- Good barrier to moisture, odors & gases

APPLICATIONS:

- Rotogravure and flexographic (non-UV and Non-water base) printing
- Lamination
- Single web structure
- HFFS & VFFS packaging



PROPERTIES		UNIT	TYPICAL VALUES									TEST METHOD.
PHYSICAL	Thickness	Microns	15	18	20	23	25	30	35	40	48	ASTM D 374
		Gauge	60	72	80	91	100	120	140	160	192	
	Grammage	g/m ²	13.65	16.38	18.20	20.93	22.75	27.30	31.85	36.40	43.68	*GPIM
		lbs/ream	8.43	10.1	11.2	12.90	14.0	16.8	19.6	22.4	26.8	
	Yield	m ² /kg	73.26	61.05	54.95	47.78	43.96	36.63	31.40	27.48	22.89	
		in ² /lb	51.565	43.000	38.700	33.700	31.000	25.800	22.100	19.400	16.100	
Coefficient of Friction (Film/Film)			0.25									ASTM D 1894
Surface Tension (Treated Side)		dynes/cm	38									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	28									
		MD	21,330									
		TD	39,816									
	Elongation at Break	MD	170									ASTM D 882
		TD	50									
Modulus of Elasticity	MD	194									ASTM D 882	
	TD	360										
	MD	275,868										
	TD	511,920										
THERMAL	Thermal Shrinkage	MD	< 4.0									GPIM (120oC (248oF), 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 (130oC, 1bar, 1sec)
lb/0.59in		0.60									GPIM (266oF, 14.5psi, 1 sec)	
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m ² /24h	7.8	7.5	7.0	6	5.5	4.5	4.0	3.0	2.4	ASTM F 1249 (38°C / 90% RH)
		g/100in ² /24h	0.49	0.48	0.45	0.4	0.36	0.29	0.26	0.19	0.16	
	Oxygen Transmission Rate (O.T.R.)	cc/m ² /24h	2580	2510	2140	2000	1468	1290	1155	962	750	ASTM D 3985 (23°C / 0% RH)
		cc/in ² /24h	175	160	140	115	95	80	75	60	50	

* GPIM – Gulf Pack Internal Method

*MD – Machine Direction

*TD – Transverse Direction

Gulf Pack HF101 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 HF101 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 HF101** and other films in the Gulf Pack range is available upon request.