

# HS(H)

## Heat Sealable High Slip Film



**DESCRIPTION :**

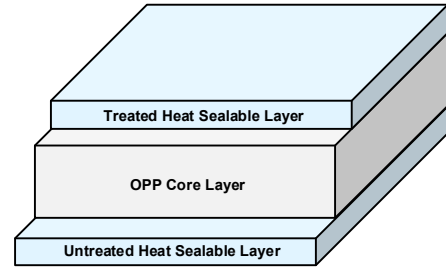
**Gulf Pack HS(H)** is a bi-axially oriented polypropylene film with both surfaces heat sealable, especially design with high slip and low antistatic properties to offer superior machinability.

**PRODUCT FEATURES :**

- Wide heat seal range.
- High 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 :**

- Converting and packaging of straws, cassettes, confectioneries, etc.
- High speed HFFS and VFFS machines.



PROPERTIES		UNIT	TYPICAL VALUES							TEST METHOD.
PHYSICAL	Thickness	Microns	18	20	25	30	35	40	48	ASTM D 374
		Gauge	72	80	100	120	140	160	192	
	Grammage	g/m <sup>2</sup>	16.38	18.20	22.75	27.30	31.85	36.40	43.68	*GPIM
		lbs/ream	10.1	11.2	14.0	16.8	19.6	22.4	26.8	
	Yield	m <sup>2</sup> /kg	61.05	54.95	43.96	36.63	31.40	27.48	22.89	
		in <sup>2</sup> /lb	43,000	38,700	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							
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 – Transversal Direction

**Gulf Pack HS(H)** 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 maybe 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 HS(H)** and other films in the Gulf Pack range is available upon request.