

# HF110

## Heat Sealable Low SIT Film (85°C)



TRANSPARENT BOPP FILM

**DESCRIPTION :**

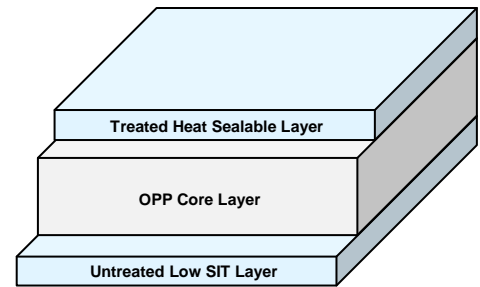
**Gulf Pack HF110** is a heat sealable film, one side with low seal initiation temperature (SIT) property of 85°C. Treated one side, designed for a wide range of high speed packaging applications.

**PRODUCT FEATURES :**

Wide sealing range  
 Low sealing threshold (85°C)  
 Excellent optical properties  
 Low coefficient of friction

**APPLICATIONS :**

Packaging and converting  
 High speed HFFS and VFFS machines



PROPERTIES		UNIT	TYPICAL VALUES				TEST METHOD.
PHYSICAL	Thickness	Microns	20	25	30	35	ASTM D 374
		Gauge	80	100	120	140	
	Grammage	g/m <sup>2</sup>	18.20	22.75	27.30	31.85	*GPIM
		lbs/ream	11.2	14.0	16.8	19.6	
	Yield	m <sup>2</sup> /kg	54.95	43.96	36.63	31.40	
		in <sup>2</sup> /lb	38,700	31,00	25,800	22,100	
Coefficient of Friction (Film/Film)			0.25				ASTM D 1894
Surface Tension (Treated Side)		dynes/cm	38				ASTM D 2578
OPTICAL	Haze	%	2.0				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)	85 – 140 (185 – 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 HF110** 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 HF110** 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 HF110** and other films in the Gulf Pack range is available upon request.