

HF150

Two Sides Anti-fog Film (FDA)



TRANSPARENT BOPP FILM

DESCRIPTION :

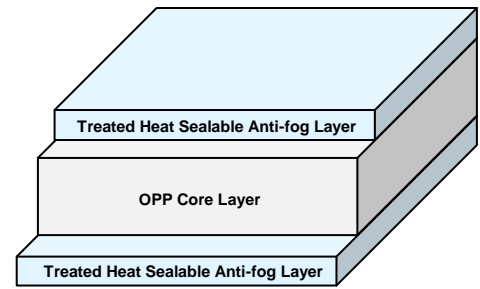
Gulf Pack HF150 is a transparent heat sealable film, both sides with anti-fog functionality and both sides treated.

PRODUCT FEATURES:

Excellent anti-fog properties
 Good optical properties
 High seal strength and good hot tack
 Good transparency to display packed fresh foods

APPLICATIONS:

Widely used in packaging of fresh fruits, meat, vegetables, bread, etc.
 Useful for HFFS and VFFS machines
 Rotogravure and flexographic printing



PROPERTIES		UNIT	TYPICAL VALUES				TEST METHOD.	
PHYSICAL	Thickness	Microns	20	25	30	35	ASTM D 374	
		Gauge	80	100	120	140		
	Grammage	g/m ²	18.20	22.75	27.30	31.85	*GPIM	
		lbs/ream	11.2	14.0	16.8	19.6		
	Yield	m ² /kg	54.95	43.96	36.63	31.40		
		in ² /lb	38,700	31,000	25,800	22,100		
Coefficient of Friction (Film/Film)			0.35				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	kg/mm ²	15				ASTM D 882
		TD		28				
		MD	psi	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)	120 – 140 (248 – 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)		
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m ² /24h	7.1	6.2	5.3	4.4	ASTM F 1249 (38°C / 90% RH)	
		g/100in ² /24h	0.46	0.40	0.34	0.28		
	Oxygen Transmission Rate (O.T.R.)	cc/m ² /24h/atm	2500	2000	1600	1400	ASTM D 3985 (23°C / 0% RH)	
		cc/in ² /24h/atm	160	130	100	90		

* GPIM – Gulf Pack Internal Method

*MD – Machine Direction

*TD – Transverse Direction

Gulf Pack HF150 films comply with the 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 HF150 standard surface treatment location is on both sides (B); other treatment preference can be arranged upon agreement with the sales representative before order processing.

Detailed advice regarding other specific applications of **Gulf Pack HF150** and other films in the Gulf Pack range is available upon request.