

HF122

Anti-fog Film



DESCRIPTION :

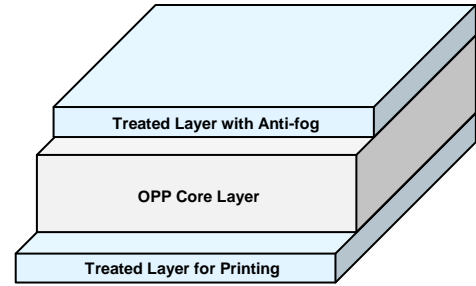
Gulf Pack HF122 is a transparent heat sealable film, both sides treated, one side with anti-fog functionality.

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.
 Rotogravure and flexographic printing
 HFFS and VFFS packaging



| PROPERTIES | | UNIT | TYPICAL VALUES | | | | | TEST METHOD. | |
|-------------------------------------|-------------------------------------|---------------------------|----------------|-----------------------|--------|--------|---------------------------------|--|-----------------------------|
| PHYSICAL | Thickness | Microns | 20 | 25 | 30 | 35 | 40 | ASTM D 374 | |
| | | Gauge | 80 | 100 | 120 | 140 | 160 | | |
| | Grammage | g/m ² | 18.20 | 22.75 | 27.30 | 31.85 | 36.4 | *GPIM | |
| | | lbs/ream | 11.2 | 14.0 | 16.8 | 19.6 | 22.44 | | |
| | Yield | m ² /kg | 54.95 | 43.96 | 36.63 | 31.40 | 27.47 | | |
| | | in ² /lb | 38,700 | 31,000 | 25,800 | 22,100 | 19,390 | | |
| 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) | 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 | 3.8 | ASTM F 1249 (38°C / 90% RH) | |
| | | g/100in ² /24h | 0.46 | 0.40 | 0.34 | 0.28 | 0.25 | | |
| | Oxygen Transmission Rate (O.T.R.) | cc/m ² /24h | 2500 | 2000 | 1600 | 1400 | 1200 | ASTM D 3985 (23°C / 0% RH) | |
| | | cc/in ² /24h | 160 | 130 | 100 | 90 | 80 | | |

* GPIM – Gulf Pack Internal Method

*MD – Machine Direction

*TD – Transverse Direction

Gulf Pack HF122 films comply with the EU Regulation 10/2011/EC 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 HF122 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 HF122** and other films in the Gulf Pack range is available upon request.