

**MTN**

**Matte Film (Both Sides Non-Heat Sealable Matte Surface)**



**DESCRIPTION :**

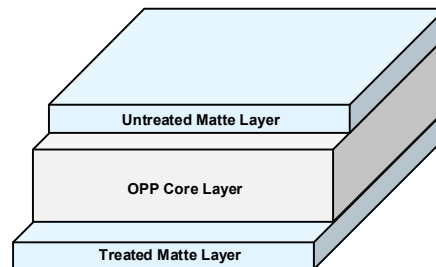
**Gulf Pack MTN** is a coextruded, bi-axially oriented film having both sides non reflective, non heat sealable matte finish with one side treated.

**PRODUCT FEATURES :**

Both sides matte surface  
Matte surface reduces glare for easy viewing  
Excellent moisture barrier.  
Good thickness control.

**APPLICATIONS :**

Lamination to papers, cardboards and bags for flower packaging.



| PROPERTIES                          |                           | UNIT                | TYPICAL VALUES     |        |        | TEST METHOD.                           |
|-------------------------------------|---------------------------|---------------------|--------------------|--------|--------|--|
| PHYSICAL                            | Thickness                 | Microns             | 18                 | 20     | 25     | ASTM D 374                             |
|                                     |                           | Gauge               | 72                 | 80     | 100    |  |
|                                     | Grammage                  | g/m <sup>2</sup>    | 16.38              | 18.20  | 22.75  | *GPIM                                  |
|                                     |                           | lbs/ream            | 9.6                | 10.6   | 13.3   |  |
|                                     | Yield                     | m <sup>2</sup> /kg  | 61.05              | 54.95  | 43.96  |  |
|                                     |                           | in <sup>2</sup> /lb | 45,800             | 41,200 | 33,000 |  |
| Coefficient of Friction (Film/Film) |                           |                     | 0.40               |        |        | ASTM D 1894                            |
| Surface Tension (Treated Side)      |                           | dynes/cm            | 38                 |        |        | ASTM D 2578                            |
| OPTICAL                             | Gloss (45°)               |                     | 10                 |        |        | ASTM D 2457                            |
| MECHANICAL                          | Tensile Strength at Break | *MD                 | kg/mm <sup>2</sup> | 12     |        | ASTM D 882                             |
|                                     |                           | *TD                 |                    | 22     |        |  |
|                                     |                           | MD                  | psi                | 17,064 |        |  |
|                                     |                           | TD                  |                    | 31,284 |        |  |
|                                     | Elongation at Break       | MD                  | %                  | 180    |        | ASTM D 882                             |
|                                     |                           | TD                  |                    | 50     |        |  |
|                                     | Modulus of Elasticity     | MD                  | kg/mm <sup>2</sup> | 210    |        | ASTM D 882                             |
|                                     |                           | TD                  |                    | 380    |        |  |
| MD                                  |                           | psi                 | 298,620            |        |        |  |
| TD                                  |                           |                     | 540,360            |        |        |  |
| THERMAL                             | Thermal Shrinkage         | MD                  | %                  | < 4.0  |        | GPIM<br>(120°C (248°F),<br>5 min, air) |
|                                     |                           | TD                  |                    | < 2.0  |        |  |

\* GPIM – Gulf Pack Internal Method      \*MD – Machine Direction      \*TD – Transversal Direction

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

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