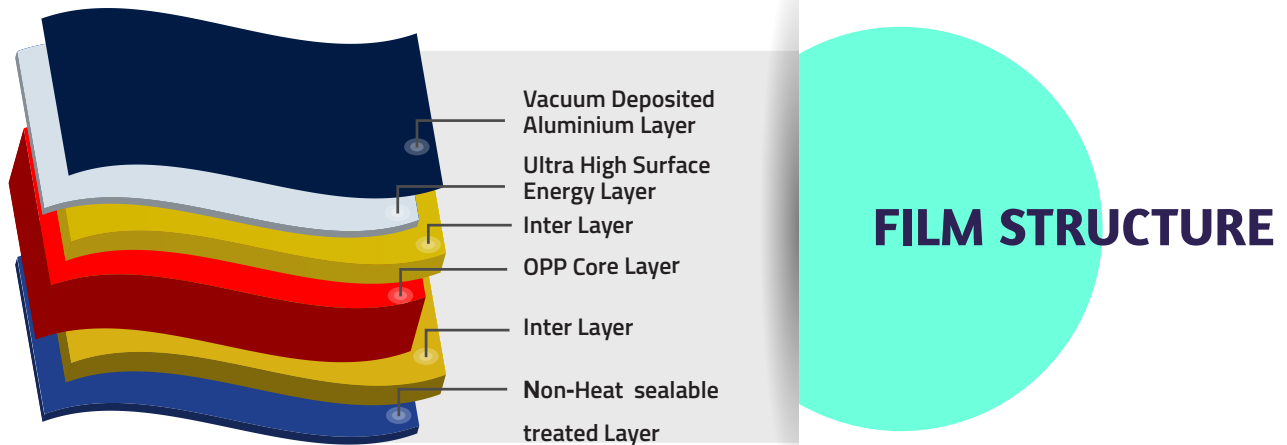


B-UNB-M

Outstanding Barrier Metallized BOPP Film (Non-Heat Sealable version)

B-UNB-M is an outstanding barrier metallized BOPP film, having ultra high surface energy on one side and the other side non-heat sealable treated layer. The film has exceptional barrier to oxygen, moisture, aroma and mineral oil. Sustainable & recyclable solutions to replace AL foil.



THE BIG DIFFERENTIATORS



Replacement Of Aluminium Foil

Sustainable & recyclable solution. Superior Gelbo test results.



Ultra High Barrier

Improves shelf life of chips/snacks by 50% retaining classical freshness, crispness & aroma.



Excellent Metal Bond & Flex Cracking Resistance

Durability & sustainability of barrier under extreme conditions.



Good Resistance To Mineral Oil

Absolute protection of oxidation for kettle chips with significant fat content.



Chlorine Free Solution

Environment friendly & non-carcinogenic.

KEY FEATURES:

- Exceptional oxygen & moisture barrier
- Exceptional barrier to aroma
- Good migration barrier (mineral oil)
- Excellent metal adhesion
- PVDC coated film replacement chlorine free
- Replacement of AL foil
- Sustainable and recyclable solution

APPLICATIONS:

- Dry fruits & beverage packaging
- Confectionery & chocolate packaging

| PROPERTIES | | TEST METHOD (ASTM) | UNIT | TYPICAL VALUES | |
|---|-----|-----------------------|-------------------------------|----------------|-------|
| THICKNESS | | Internal | Micron | 18 | 20 |
| | | | (Gauge) | 72 | 80 |
| FILM DENSITY | | D-1505 | gm/cc | 0.91 | |
| GRAMMAGE | | Internal | gm/m ² | 16.4 | 18.2 |
| YEILD | | Internal | m ² /kg | 61.1 | 54.9 |
| | | | in ² /lb | 42953 | 38594 |
| TREATMENT LEVEL | | D-2578 | dyne/cm | 36 | |
| OPTICAL DENSITY (TOLERANCE: +/- 5%) | | Internal | - | 2.5 | |
| TENSILE STRENGTH AT BREAK | MD* | D-882 | kg/cm ² | 1200 | |
| | TD* | | | 2500 | |
| | MD* | | (KPsi) | 17.0 | |
| | TD* | | | 35.5 | |
| ELONGATION AT BREAK | MD* | D-882 | % | 200 | |
| | TD* | | | 60 | |
| LINEAR SHRINKAGE (max) (5 Minutes at 130°C) | MD* | D-1204 | % | 6.0 | |
| | TD* | | | 3.0 | |
| WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH) | | F-1249 | gm/m ² /day | 0.1 | |
| | | | (gm/100 in ² /day) | 0.006 | |
| OXYGEN TRANSMISSION RATE (23°C & 0% RH) | | D-3985 | cc/m ² /day | 0.1 | |
| | | | (cc/100 in ² /day) | 0.006 | |

Ref no QAD UFLI S/23 – MB 16/1

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

STORAGE & HANDLING

FLEXMETPROTECT™ does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at operating environment for 24 hours before processing. FLEXMETPROTECT™ is best suitable for use within 3 months from date of dispatch.

FOOD CONTACT

FLEXMETPROTECT™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

DISCLAIMER

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

**TDS issued on 01-07-2023. All previous versions of this grade are invalid.

FlexFilms

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