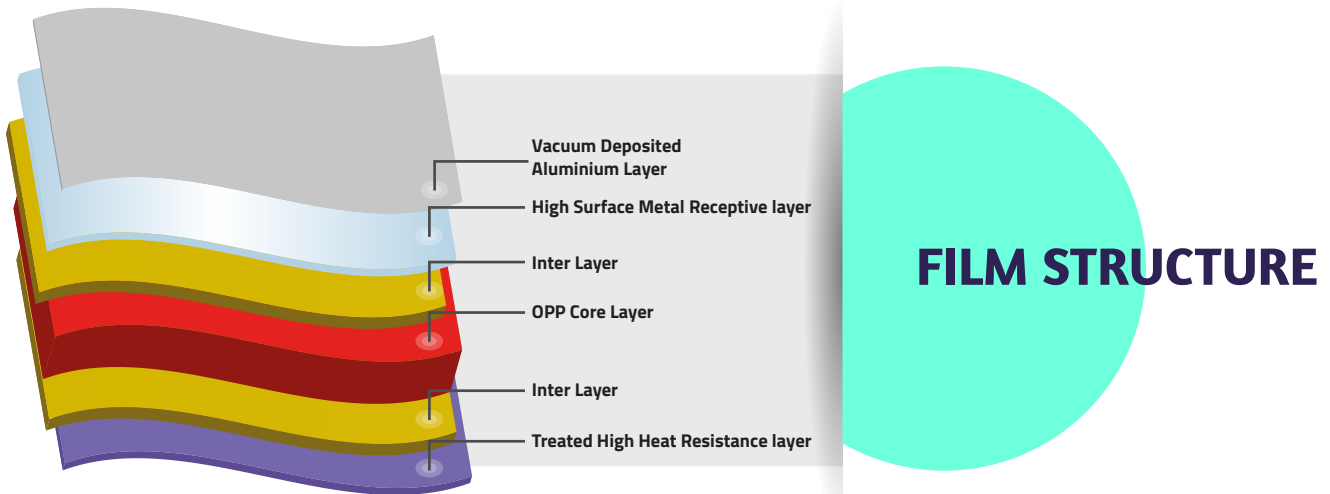


B-TUS-M

High Barrier & High Heat Resistance Sandwich Grade Bopp Film

B-TUS-M is high barrier & high heat resistance both side treated metalized BOPP film for sandwich lamination.



THE BIG DIFFERENTIATORS



Excellent Metal Bond & Metal Cracking Resistance

Durability & sustainability of barrier under extreme conditions. Enhanced extrusion/adhesive bond strengths.



Good Heat Resistance

High Performance with sustainable barrier specially for tea bags liners.



Good Sandwich Bond

Better performance on high speed.



Good Metal Bond

Very good extrusion/adhesive bonds resulting in barriers that last longer.



High Barrier Values

Improves shelf life of chips/snacks by 10% retaining natural freshness, crispness & aroma.

KEY FEATURES:

- Excellent machinability
- Superior barrier properties
- Improved metal adhesion

APPLICATIONS:

- Sandwich lamination for tea liners

| PROPERTIES | | TEST METHOD (ASTM) | UNIT | TYPICAL VALUES | | |
|--|-----|--------------------|-------------------------------|----------------|-------|-------|
| THICKNESS | | Internal | Micron | 15 | 18 | 20 |
| | | | (Gauge) | 60 | 72 | 80 |
| FILM DENSITY | | D-1505 | gm/cc | 0.91 | | |
| GRAMMAGE | | Internal | gm/m ² | 13.7 | 16.4 | 18.2 |
| YIELD | | Internal | m ² /kg | 73.1 | 61.1 | 54.9 |
| | | | in ² /lb | 51389 | 42953 | 38594 |
| TREATMENT LEVEL | | D-2578 | dyne/cm | 36 | | |
| OPTICAL DENSITY (TOLERANCE : +/- 5%) | | | - | 2.8 | | |
| 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 | 0.1 | 0.1 |
| | | | (gm/100 in ² /day) | 0.006 | 0.006 | 0.006 |
| OXYGEN TRANSMISSION RATE (23°C & 0% RH) | | D-3985 | cc/m ² /day | 20 | 20 | 20 |
| | | | (cc/100 in ² /day) | 1.3 | 1.3 | 1.3 |

Ref no QAD UFLI S/20 - MB 4/1

*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 01-04-2020. All previous version of this grade are invalid.

FlexFilms

Manufacturing Facilities at
India | UAE | Poland | Egypt | Mexico |
USA | Hungary | Russia | Nigeria
enquiry@flexfilm.com
www.flexfilm.com