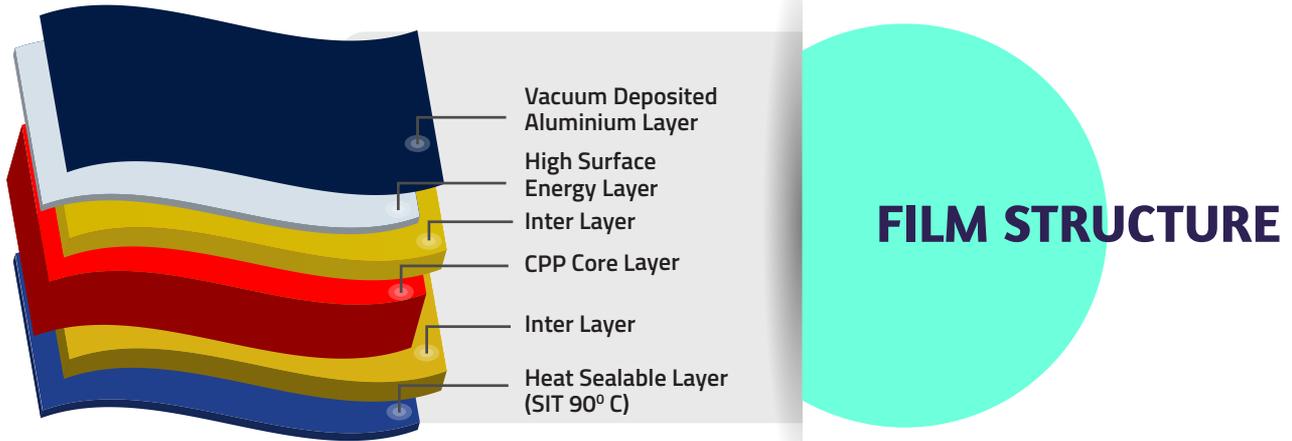


C-CML-M

High Barrier Metallized Film With Ultra Low SIT

C-CML-M is a metallized CPP film having metal deposit on corona treated side and functional sealing layer on the other side with low SIT and broad hot tack.



THE BIG DIFFERENTIATORS



High Oxygen, Moisture & Aroma Barriers

Improve shelf life of chips/snacks by 25% retaining classical freshness & crispness.



Enhanced Seal Functionality

Low SIT with excellent broad & high hot tack, hermetic seal designed to substantially improve productivity & operating efficiency at FFS m/c. capable of Nitrogen flushing.



Exceptional Metal Brilliance

Enhanced graphics & images.



Superior Metal Bond & Metal Cracking Resistance

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



Good Machinability

Excellent runnability.

KEY FEATURES:

- Low SIT
- Excellent Hermeticity
- Broad hot tack
- Excellent metal adhesion
- Seal Through contamination

APPLICATIONS:

- Snacks & Biscuits
- High speed packaging on FFS machine
- Condiment Packaging

| PROPERTIES | | TEST METHOD (ASTM) | UNIT | TYPICAL VALUES | |
|--|-------|--------------------|-------------------------------|----------------|---------|
| THICKNESS | | Internal | Micron | 22 | 25 |
| | | | (Gauge) | 88 | 100 |
| FILM DENSITY | | D-1505 | gm/cc | 0.91 | |
| GRAMMAGE | | Internal | gm/m ² | 20 | 22.7 |
| YEILD | | Internal | m ² /kg | 50 | 44.0 |
| | | | in ² /lb | 35150 | 30932 |
| TREATMENT LEVEL | | D-2578 | dyne/cm | 36 | |
| OPTICAL DENSITY (TOLERANCE: +/- 5%) | | Internal | - | 2.5 | |
| TENSILE STRENGTH AT BREAK | MD* | D-882 | kg/cm ² | 750 | |
| | TD* | | | 270 | |
| | MD* | | (KPsi) | 10.7 | |
| | TD* | | | 3.8 | |
| ELONGATION AT BREAK | MD* | D-882 | % | 450 | |
| | TD* | | | 700 | |
| HEAT SEAL INITIATION TEMPERATURE | | Internal | °C | 90 | |
| HEAT SEAL STRENGTH | (Min) | Internal | gm/25mm | 1900 | 2200 |
| WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH) | | F-1249 | gm/m ² /day | < 0.4 | < 0.4 |
| | | | (gm/100 in ² /day) | < 0.025 | < 0.025 |
| OXYGEN TRANSMISSION RATE (23°C & 0% RH) | | D-3985 | cc/m ² /day | < 50 | < 50 |
| | | | (cc/100 in ² /day) | < 3.2 | < 3.2 |

*Ref no QAD UFLI 5/20 - MC 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. It is a fact that Metallized films age with time and will exhibit deterioration in the surface treatment levels. A guarantee of the duration of the treatment on the metallized surface cannot therefore be given. In case of deterioration of surface treatment level, in line refreshment of corona treatment is recommended before processing of the material. 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 revised on 11-10-2023.All previous version of this grade are invalid.

FlexFilms

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