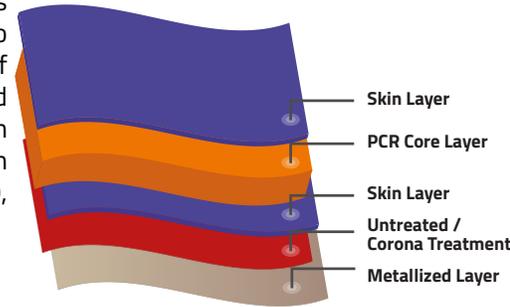


R-MTG-M

METALLIZED PCR BASED FILMS

R-MTG is metallized BOPET film. The film is one side Untreated whereas the other side is either Untreated or Corona Treated. Film is available in optical densities ranging from 2.2 to 2.8; this wide range gives options to the customer to use the product for a diverse range of applications. The metallization is available on the Untreated surface (MU) or Corona Treated surface (MT) as specified by the customer. The bond between the metal & film is a minimum of 100gm/25mm when metallized on the Untreated surface or 130gm/25mm when metallized on Corona Treated surface. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

FILM STRUCTURE



KEY FEATURES:

- Excellent gloss
- Good barrier properties
- Excellent machinability & handling properties
- Good metal bond properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

APPLICATION:

- Flexible Packaging
- Laminations (Solventless and extrusion)
- Decorative applications

| PROPERTIES | TEST METHOD | UNIT | TYPICAL VALUES | | |
|--|-------------|-------------------------------|--|-------|-------|
| OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.) | | | Standard Density (SD) 2.2 - Barrier Packaging Application High Density (HD) 2.5 - High Barrier Application Very High Density (VHD) 2.8 - Special Application | | |
| THICKNESS | Internal | Micron | 12 | 15 | 30 |
| | | (Gauge) | 48 | 60 | 120 |
| YIELD | Internal | m ² / kg | 59.52 | 47.62 | 23.8 |
| | | in ² / lb | 41934 | 33550 | 16768 |
| SURFACE TENSION (min) # ★ (Corona Treated surface) | ASTM D-2578 | Dyne/cm | 52 | | |
| COF (max) (One side to the other side) | ASTM D-1894 | - | 0.70 | | |
| TENSILE STRENGTH AT BREAK (min) | ASTM D-882 | kg/cm ² | 1900 | 1900 | 1900 |
| | | | 2000 | 2000 | 2000 |
| | | (Psi) | 27000 | 27000 | 27000 |
| | | | 28500 | 28500 | 28500 |
| ELONGATION AT BREAK (min) | ASTM D-882 | % | 105 | 110 | 115 |
| | | | 85 | 85 | 90 |
| LINEAR SHRINKAGE (max) (30 Minute at 105°C) | ASTM D-1204 | % | 1.5 | | |
| | | | 0.6 | | |
| MVTR (38°C & 90% RH) (typical) | ASTM F-1249 | gm/m ² /day | SD | HD | VHD |
| | | (gm/100 in ² /day) | 1.0 | 0.6 | 0.4 |
| OTR (23°C & 0% RH) (typical) | ASTM D-3985 | cc/m ² /day | 0.06 | 0.04 | 0.03 |
| | | (cc/100 in ² /day) | 1.1 | 1.0 | 0.8 |
| | | | 0.07 | 0.06 | 0.05 |

★ This dyne value is applicable only for NAFTA, SA, and Poland manufacturing plants.

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

FLEXMETPROTECT™ needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, FLEXMETPROTECT™ is suitable for use within 180 days from the date of shipment.

FOOD CONTACT

FLEXMETPROTECT™ complies with EU and FDA regulations on plastic materials used for food grade application. Specific documents and SDS are available on request.

DISCLAIMER

It is the responsibility of our customer 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.