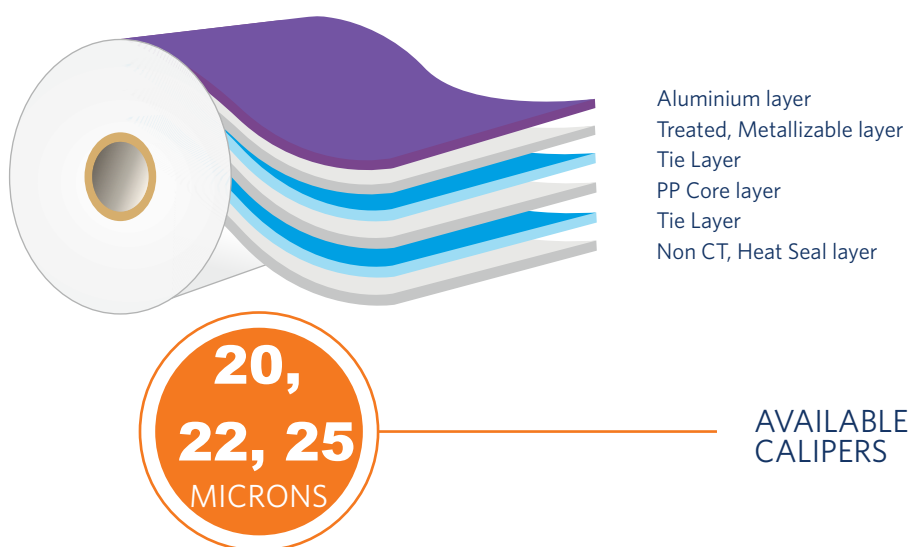


PROVISIONAL

MSI205-CPP

METALLIZED HEAT SEALABLE INSIDE METALLIZED BARRIER GRADE CPP
FILM FOR CONVERSION



DESCRIPTION

It is a co-extruded metallized multipurpose cast polypropylene film. It's one side excellent metal adhesion of deposited metal and other side is heat sealable. In addition to this, its improved barrier properties make it an ideal choice for sensitive product demanding great protection.

PRODUCT FEATURES

- Excellent sealing properties in term of strength, hot-tack and integrity
- Excellent metal bond adhesion
- Remarkable performance on HFFS & VFFS machines
- Good Oxygen & Moisture barrier
- Excellent Seal strength

APPLICATIONS

- Confectionary (Chocolate/gum/sugar)
- Bakery (Biscuits/cookie/crackers)
- Potato chips/snacks/crisp
- Household and detergents

PROVISIONAL

| | PROPERTIES | REF. | MS20I205-CPP | MS22I205-CPP | MS25I205-CPP | UNITS | TEST METHOD |
|------------|--|---------------------------|--------------|--------------|--------------|----------------------|-----------------|
| GENERAL | Thickness | | 20 | 22 | 25 | μ | Internal Method |
| | Density | | 0.91 | 0.91 | 0.91 | g/cc | Internal Method |
| | GSM | | 18.2 | 20.02 | 22.75 | g/m ² | Internal Method |
| | Yield | | 54.9 | 50.0 | 44.0 | m ² /Kg | Internal Method |
| SURFACE | Kinetic COF | Film /Metal Film /Film | | 0.25 0.60 | | - - | ASTM D-1894 |
| | Optical Density | - | | 2.0 | | - | Internal Method |
| MECHANICAL | Tensile Strength | MD | 500 | 500 | 450 | Kg/cm ² | ASTM D-882 |
| | | TD | 250 | 250 | 300 | | ASTM D-882 |
| | Elongation | MD | 270 | 300 | 350 | % | ASTM D-882 |
| | | TD | 450 | 500 | 550 | | ASTM D-882 |
| THERMAL | SIT | | | 118 | | °C | Internal Method |
| | Heat Seal Strength (0.5sec, 30psi, 130°C) | | 1400 | 1600 | 1800 | g/in | Internal Method |
| BARRIER | WVTR | | | 1.0 | | g/m ² /d | ASTM F-1249 |
| | OTR | | | 150 | | cc/m ² /d | ASTM D-3985 |

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed with three months of receipt. CPP films should be allowed to reach operating room temperature 24 hours before use. Film characteristics are maintained for six months from the date of manufacturing.

FOOD CONTACT

CPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.

SAFETY

Compliance with industrial health and safety standards. CPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

CAUTIONS

- Film characteristics are maintained for six months from the date of invoicing except for metallized layer surface tension.
- Strongly recommend online corona treatment in metallised films during lamination as treatment level decay with time is a natural phenomenon which depends on ambient conditions (Recommended storage conditions: Temperature < 30 deg C & Humidity 55% (Maximum) in original packed condition).