



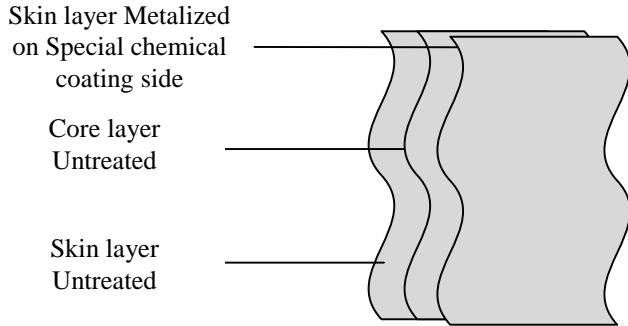
Sumilon Polyester Ltd.

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TECHNICAL SPECIFICATION SHEET (SM-601)

SM-601 grade is a bi-axially oriented High barrier metallized Polyester film .The film is metallized on chemical coated side to provide high metal bond strength with excellent barrier properties & other side is corona treated.This film grade complies with FDA and EC regulations for food packaging.



Main Features:

- ❖ Printing ,Coating, Lamination
- ❖ Enhanced lamination bond strength
- ❖ High Metal bond strength & barrier properties
- ❖ Excellent Adhesion of Metal, Inks & Adhesive

Applications:

- ❖ Suitable for flexible packaging application
- ❖ Hot filled applications e.g tomato ketchup, juices, soup
- ❖ Frozen food application
- ❖ Cosmetics & personal care products

TECHNICAL DATA

| Properties | Test method | Unit | SM-601 | | | | | | |
|--|----------------|---------------------------|--------------------|-------|-------|------|-------|-------|--|
| PHYSICAL PROPERTIES | | | | | | | | | |
| Thickness | ASTM E-252 | Micron | 10 | | | 12 | | | |
| Yield | SPTM | m ² /kg | 71.4 | | | 59.5 | | | |
| MECHANICAL PROPERTIES | | | | | | | | | |
| Tensile strength (Min) | MD | ASTM D-882 | Kg/cm ² | 2000 | | | 2000 | | |
| | TD | ASTM D-882 | Kg/cm ² | 1900 | | | 1900 | | |
| Elongation (Min) | MD | ASTM D-882 | % | 90 | | | 90 | | |
| | TD | ASTM D-882 | % | 90 | | | 90 | | |
| THERMAL PROPERTIES | | | | | | | | | |
| Shrinkage (150 ^o C / 30 min) (Max) | MD | ASTM D-1204 | % | 2.8 | | | 2.8 | | |
| | TD | ASTM D-1204 | % | 0.8 | | | 0.8 | | |
| Metal Bond Strength/ Optical density/Barrier Properties | | | | | | | | | |
| Metal Bond Strength(min) | SPTM | gm/25mm | 800 | | | 800 | | | |
| Optical Density | SPTM | - | 2.2 | 2.5 | 2.8 | 2.2 | 2.5 | 2.8 | |
| WVTR (38 ^o C & 90% RH) | ASTM F-1249-06 | gm / m ² / day | <1.0 | <0.65 | <0.60 | <1.0 | <0.45 | <0.40 | |
| OTR (23 ^o C & 0% RH) | ASTM D-3985-05 | cc / m ² / day | <1.0 | <0.70 | <0.55 | <1.0 | <0.50 | <0.45 | |

Note: Thickness other than mentioned above can be given on customer requirements.

SPTM: SUMILON POLYESTER TEST METHOD, MD: MACHINE DIRECTION, TD: TRANSVERSE DIRECTION

DISCLAIMER

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. Sumilon Polyester Limited suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.

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