



SML Films Ltd.



SM 810 N

Doc No.-F/PRD/02, Rev.-01, Dt.-01.06.2016

DESCRIPTION : SM 810 N, **Special Co-polymer chemically coated** film is a co-extruded transparent and untreated bi-axially oriented polyester film.

APPLICATION : Suitable for printing, lamination, metallization, frozen food packaging & hot filled applications like Tomato Ketchup, Juices, etc. And also this film is suitable for retort application.

SALIENT FEATURES :

- Good clarity and transparency.
- Excellent adhesion to inks, lacquers & adhesive.
- Excellent metal adhesion when metallized on coated side.
- Excellent mechanical & thermal properties.

TECHNICAL DATA SHEET (SM 810 N)

| Properties | Test Method | Unit | SM 810 N | | | | | | | | |
|-------------------------------------|-------------|------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| PHYSICAL | | | | | | | | | | | |
| Thickness | ASTM D-374 | Micron | 8 | 10 | 12 | 15 | 19 | 23 | 36 | 50 | |
| Thickness Variation | SMLTM | % | ±5 | ±5 | ±5 | ±5 | ±5 | ±5 | ±5 | ±5 | |
| Average Grammage | SMLTM | g/m ² | 11.2 | 14.0 | 16.8 | 21.0 | 26.6 | 32.2 | 50.4 | 70.0 | |
| Density | ASTM D-1505 | g/cc | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Width | - | mm | 500-3100 | 500-3100 | 500-3100 | 500-3100 | 500-3100 | 500-3100 | 500-3100 | 500-3100 | |
| Length | - | mtr | Up to 60000 | Up to 60000 | Up to 60000 | Up to 36000 | Up to 24000 | Up to 21000 | Up to 18000 | Up to 18000 | |
| Joints | - | % | 80% (NIL) 20% (1 Joint) | | | | | | | | |
| OPTICAL | | | | | | | | | | | |
| Haze | ASTM D-1003 | % | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | 2.0~3.0 | |
| Transmittance | ASTM D-1003 | % | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | 88.0~89.0 | |
| MECHANICAL | | | | | | | | | | | |
| Tensile Strength (Min) | MD | ASTM D-882 | Kg/cm ² | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2200 | 2000 |
| | TD | | | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| Elongation (Min) | MD | ASTM D-882 | % | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 120 |
| | TD | | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 |
| Coefficient of friction (Max) | Static | ASTM D-1894 | - | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| | Kinetic | | | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| THERMAL | | | | | | | | | | | |
| Shrinkage (Max) (150°C /30 Min) | MD | ASTM D-1204 | % | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | TD | | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| SURFACE | | | | | | | | | | | |
| Wetting Tension | Coating | ASTM D-2578 | Dyne/cm | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 |
| | Plain | | | 44-46 | 44-46 | 44-46 | 44-46 | 44-46 | 44-46 | 44-46 | 44-46 |

SMLTM : SML TEST METHOD, MD : MACHINE DIRECTION , TD : TRANSVERSE DIRECTION

- Notes:**
- 1- Tolerance in width +3mm and -0mm.
 - 2- The above properties are indicative only. Film can be produced to suit customer's requirements.

