



SML Films Ltd.



## SM 200 T

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

**DESCRIPTION :** SM 200 T, Yarn grade film is a co-extruded transparent and corona treated bi-axially oriented polyester film.

**APPLICATION :** Suitable for metallic and plain yarn application.

**SALIENT FEATURES :**

- Good clarity and transparency.
- Good adhesion to inks & lacquers.
- Excellent mechanical & thermal properties.

## TECHNICAL DATA SHEET ( SM 200 T )

| Properties                          | Test Method | Unit             | SM 200 T           |             |             |             |             |       |
|-------------------------------------|-------------|------------------|--------------------|-------------|-------------|-------------|-------------|-------|
| <b>PHYSICAL</b>                     |             |                  |                    |             |             |             |             |       |
| Thickness                           | ASTM D-374  | Micron           | <b>10</b>          | <b>12</b>   | <b>15</b>   | <b>23</b>   | <b>31</b>   |       |
| Thickness Variation                 | SMLTM       | %                | ±5                 | ±5          | ±5          | ±5          | ±5          |       |
| Average Gammage                     | SMLTM       | g/m <sup>2</sup> | 14.0               | 16.8        | 21.0        | 32.2        | 43.4        |       |
| Density                             | ASTM D-1505 | g/cc             | 1.4                | 1.4         | 1.4         | 1.4         | 1.4         |       |
| Width                               | –           | mm               | 500-3100           | 500-3100    | 500-3100    | 500-3100    | 500-3100    |       |
| Length                              | –           | mtr              | Up to 60000        | Up to 60000 | Up to 36000 | Up to 21000 | Up to 18000 |       |
| Joints                              | –           | %                | 80% (NIL)          |             |             |             |             |       |
|                                     |             |                  | 20% (1 Joint)      |             |             |             |             |       |
| <b>OPTICAL</b>                      |             |                  |                    |             |             |             |             |       |
| Haze                                | ASTM D-1003 | %                | 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   |       |
| <b>MECHANICAL</b>                   |             |                  |                    |             |             |             |             |       |
| Tensile Strength ( Min )            | MD          | ASTM D-882       | Kg/cm <sup>2</sup> | 2500        | 2500        | 2500        | 2500        | 2400  |
|                                     | TD          |                  |                    | 2450        | 2450        | 2450        | 2400        | 2300  |
| Elongation ( Min )                  | MD          | ASTM D-882       | %                  | 100         | 100         | 100         | 100         | 110   |
|                                     | TD          |                  |                    | 90          | 100         | 100         | 100         | 100   |
| Coefficient of friction (Max )      | Static      | ASTM D-1894      | –                  | 0.50        | 0.50        | 0.50        | 0.50        | 0.50  |
|                                     | Kinetic     |                  |                    | 0.45        | 0.45        | 0.45        | 0.45        | 0.45  |
| <b>THERMAL</b>                      |             |                  |                    |             |             |             |             |       |
| Shrinkage ( Max ) ( 190°C /05 Min ) | MD          | ASTM D-1204      | %                  | 3.2         | 3.2         | 3.2         | 3.2         | 3.2   |
|                                     | TD          |                  |                    | -0.4        | -0.4        | -0.4        | -0.2        | -0.2  |
| <b>SURFACE</b>                      |             |                  |                    |             |             |             |             |       |
| Wetting Tension                     | Plain       | ASTM D-2578      | Dyne/cm            | 44-46       | 44-46       | 44-46       | 44-46       | 44-46 |
|                                     | Corona      |                  |                    | 52-58       | 52-58       | 52-58       | 52-58       | 52-58 |

**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.

