

METALLIZED INSIDE AND OTHER SIDE NON HEAT SEALABLE WITH EXCELLENT BARRIER PROPERTIES (B-TSV-M)

APPLICATION: SANDWICH LAMINATION

| PROPERTIES                                     | TEST METHOD (ASTM) | UNIT               | TYPICAL VALUE                |       |       |
|--|--------------------|--------------------|------------------------------|-------|-------|
|  |                    |                    | 15                           | 18    |       |
| <b>OPTICAL</b>                                 |                    |                    |                              |       |       |
| OPTICAL DENSITY**<br>(TOLERANCE : +/- 5%)      | Gretag             | -                  | 2.2                          | 2.2   |       |
| <b>GENERAL</b>                                 |                    |                    |                              |       |       |
| THICKNESS                                      | Internal           | Micron             | 15                           | 18    |       |
|  |                    | (Gauge)            |                              | 60    | 72    |
| FILM DENSITY                                   | D-1505             | gm/cc              | 0.91                         | 0.91  |       |
| GRAMMAGE                                       | Internal           | gm/m <sup>2</sup>  | 13.65                        | 16.38 |       |
| YIELD  | Internal           | m <sup>2</sup> /kg | 73.26                        | 61.05 |       |
| TREATMENT LEVEL**                              | (Min.) D-2578      | dyne/cm            | 36                           | 36    |       |
| <b>MECHANICAL</b>                              |                    |                    |                              |       |       |
| TENSILE STRENGTH AT BREAK<br>(Min.)            | MD*                | D-882              | Kg/cm <sup>2</sup>           | 1200  | 1200  |
|  | TD*                |                    |                              | 2500  | 2500  |
|  | MD*                |                    | (Psi)                        | 17000 | 17000 |
|  | TD*                |                    |                              | 35500 | 35500 |
| ELONGATION AT BREAK<br>(Min.)                  | MD                 | D-882              | %                            | 160   | 160   |
|  | TD                 |                    |                              | 60    | 60    |
|  | MD                 |                    |                              | 17000 | 17000 |
| MODULUS OF ELASTICITY<br>(Min.)                | TD                 | D-882              | Kg/cm <sup>2</sup>           | 30000 | 30000 |
|  | MD                 |                    |                              | 241.4 | 241.4 |
|  | MD                 |                    | (KPsi)                       | 426   | 426   |
|  | TD                 |                    |                              |       |       |
| <b>THERMAL</b>                                 |                    |                    |                              |       |       |
| LINEAR SHRINKAGE (Max.)<br>(AT 120°C/5 Minute) | MD                 | D-1204             | %                            | 5.0   | 4.0   |
|  | TD                 |                    |                              | 2.0   | 2.0   |
| <b>BARRIER PROPERTIES</b>                      |                    |                    |                              |       |       |
| W.V.T.R.(38°C & 90%RH)                         | F-1249             |                    | gm/m <sup>2</sup> /day       | <1.1  | <1.0  |
|  |                    |                    | (gm/100in <sup>2</sup> /day) | <0.07 | <0.06 |
| O.T.R. (23°C & 0%RH)                           | D-3985             |                    | cc/m <sup>2</sup> /day       | 125   | 110   |
|  |                    |                    | (cc/100in <sup>2</sup> /day) | 8.0   | 7.0   |

\*\* The film of high O.D. = 2.4 (Min.) is also available.

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\*MD = MACHINE DIRECTION \*TD = TRANSVERSE DIRECTION

\*\*Treatment value of BOPP films tend to decay over a period of time during transportation & storage conditions. Therefore it is recommended that the customer should check the treatment levels prior to processing and if a reduction is observed then online corona tretment, high adhesive GSM & a suitable primer may be applied.

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