

DURAMET[®] 12µm METALLIZED & TOP-COATED POLYESTER FILM EXPERIMENTAL DATASHEET

Top-Coated and Metal One Side, Corona Treat Other Side

A bi-axially oriented polyester film exhibiting excellent heat reflection properties, a moisture protected metal layer, and bright foil appearance. Consistently good handling properties, heat stability, slip, and high tensile strength for easy lamination. Superior WVTR, OTR, and light barrier properties.

| Properties | Typical Value | | Units | Test Method |
|---------------------------|------------------|------------------------------|--------------------------|--------------------------------|
| Yield | 58,4 | | m ² /kg | |
| Thickness | 12,0 | | µm | |
| Tensile Strength | 172,4 206,8 | MD TD | N/mm ² | ASTM D882 |
| Tensile Modulus | 3654,2 3861,1 | MD TD | N/mm ² | ASTM D882 |
| Elongation | 90 70 | MD TD | % | ASTM D882 |
| Optical Density | > 2,5 | | Tobias | CMP OD-1 |
| Light Transmission | < 0,3 | | % | |
| WVTR | < 0,15 | | g/m ² /24 hr | ASTM E-398 (37,8°C, 90% RH) |
| OTR | < 0,15 | | cc/m ² /24 hr | ASTM D-3985 (23°C, 50% RH) |
| Metal Adhesion | 6,0 | | N/25mm | CMP MA-1 |
| Surface Energy | 40 54 | Metal Side Non-metal Side | Dyne/cm | ASTM D2578 |

The polyester side is in compliance with the regulation FDA 21 CFR 177.1630 (f, g, h) and EU Directive 2002/72 and 2011/10. This film meets FDA food contact requirements for use with all food types under Condition of Use A and E. Non-objection approval letter is on file from Health Protection Branch of Canadian Food Inspection Agency (CFIA). This film also complies with relevant requirements of the Swiss Chemicals Ordinance SR 813.11(ChemO) and European Regulation No. 10/2011 for food contact.

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