

## FSM-7112B

A commercial grade Foil-Scrim-MPET Facing with 2-way 12.5x12.5mm scrim, mainly used for winding flexible pipe insulation.

### Facing Composition

| Facing Composition | Description          | Value (English)  | Value (Metric) |
|--------------------|----------------------|------------------|----------------|
| Foil               | Aluminum             | 0.28 mil         | 7 micron       |
| Reinforcing - MD   | Fiberglass           | 1/2 inch spacing | 12.5mm spacing |
| Reinforcing - XD   | Fiberglass           | 1/2 inch spacing | 12.5mm spacing |
| Adhesive           | Polyethylene         | -----            | -----          |
| MPET Film          | Metallized Polyester | 0.48 mil         | 12 micron      |

### Typical Physical Properties

| Physical Properties         | Test Method               | Value (English)                | Value (Metric)       |
|-----------------------------|---------------------------|--------------------------------|----------------------|
| Basis Weight                | Scale                     | 9.2 lbs / 1000 ft <sup>2</sup> | 45 gsm               |
| Permeance (WVTR)            | ASTM E96, Procedure A     | 0.02 perm                      | 1.15 ng/N.s          |
| Tensile Strength - MD       | ASTM D828                 | 14.8 lbs/in                    | 65 N/25mm            |
| Tensile Strength - XD       | ASTM D828                 | 11.4 lbs/in                    | 50 N/25mm            |
| Burst Strength              | ASTM D774                 | 31.7 psi                       | 22 N/cm <sup>2</sup> |
| Low Temperature Resistance  | ASTM D1790                | Remains Flexible               | Remains              |
|                             | 4 hrs @ -40 °F (- 40 °C)  | No Delamination                | No Delamination      |
| High Temperature Resistance | ASTM D1790                | Remains Flexible               | Remains              |
|                             | 4 hrs @ +240 °F (+116 °C) | No Delamination                | No Delamination      |
| Dimensional Stability       | ASTM D1204 @ 150F         | Less than 0.5%                 | Less than 0.5%       |
| Emissivity                  | ASTM E408                 | 0.03                           | 0.03                 |