



# ALPHA

engineered composites

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ALPHA - ALAFLEX (SCRIM BASE)  
 STYLE 4348 AMA 5/10

DESCRIPTION

Alpha Alaflex Style 4348 AMA 5/10 is a triple ply laminate made with a fiberglass scrim adhered with a fire retardant, thermo-setting adhesive to an aluminized polyester face and an aluminum foil backing.

1. Base Fabric - Fiberglass, 4 x 3 scrim.
2. Adhesive - Fire Retardant, Thermo-Setting.
3. Film - 1/2 mil polyester, aluminized.
4. Foil - Aluminum 5/10 mil.

ADVANTAGES

Aluminum surface (both sides), Excellent vapor barrier.

APPLICATIONS

Flex Duct Jacketing, Refrigeration liners.

PROPERTY DATA  
 STYLE 4348 AMA 5/10

| <u>CHARACTERISTIC</u>  | <u>METHOD</u> | <u>VALUES*</u>  |  |
|------------------------|---------------|---|--|
|                        |               | <u>ENGLISH</u>  | <u>METRIC</u>                              |
| WEIGHT                 | ASTM-D-3776   | 2.3 oz/sy ± 10%   | 78.6 g/m <sup>2</sup> ± 10%                |
| THICKNESS              | ASTM-D-1777   | 0.006" ± .001"  | 0.152 mm ± .025 mm                         |
| TENSILE STRENGTH       | ASTM-D-5035   | Warp- 30 lbs/inch<br>Fill- 25 lbs/inch                                    | 5.36 kg/cm<br>4.47 kg/cm                   |
| TEAR STRENGTH          | ASTM-D-1424   | Warp- 24.69 oz.<br>Fill- 17.67 oz.  | 700 gms.<br>500 gms.                       |
| BEACH PUNCTURE         | ASTM-C-1136   | 100 units (26.5 inch/lbs)   | 3.0 joules                                 |
| FLAME RESISTANCE       | ASTM-D-6413   | Char Length 2 inch max.<br>Afterglow 2 sec. max.<br>Flame Out 2 sec. max. | 5.08 cm max.<br>2 sec. max.<br>2 sec. max. |
| TEMPERATURE RESISTANCE |               | -40 °F to +300 °F   | -40 °C to 149 °C                           |
| PERMEABILITY (MVTR)    | ASTM-E-96     | Result - 0.02 Perms   |  |
| CORROSION RESISTANCE   | ASTM-C-1136   | 120 °F @95% RH 20 days<br>Result - No Corrosion                           | 49 °C                                      |

DATA SHEET: 14155 REV: B DATE: 1/08/15 \*All values are nominal unless otherwise specified.

**Specializing in marine, aerospace, automotive and commercial fabrics for thermal and industrial applications**

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