



# ALPHA

engineered composites

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ALPHA - MARITEX  
STYLE 84215/9480-AMA-1S

DESCRIPTION

Alpha Style 84215/9480-AMA-1S is a lamination of fiberglass fabric to aluminum foil, using a high temperature adhesive, with a silicone wash coat to protect the exposed surface and prevent fabric fraying on the laminated edges. This composite is designed to withstand temperatures of 450 °F with short exposure limits to 500 °F.

APPLICATIONS

Automotive applications including insulation facings and radiant heat shields.

ADVANTAGES

High temperature resistance, reflects radiant heat, good corrosion resistance.

PROPERTY DATA  
STYLE 84215/9480-AMA-1S

| <u>CHARACTERISTIC</u>  | <u>METHOD</u> | <u>VALUES*</u>  |                           |              |
|------------------------|---------------|---|---------------------------|--------------|
|                        |               | <u>ENGLISH</u>  | <u>METRIC</u>             |              |
| WEIGHT                 | ASTM-D-3776   | 12.5 oz/sy ± 1.25   | 424 g/m <sup>2</sup> ± 43 |              |
| THICKNESS              | ASTM-D-1777   | 0.018" ± 0.003"   | 0.457 mm ± .076 mm        |              |
| TENSILE STRENGTH       | ASTM-D-5035   | Warp-   | 200 lbs/inch              | 35.72 kg/cm  |
|                        |               | Fill-   | 125 lbs/inch              | 22.33 kg/cm  |
| TEAR STRENGTH          | ASTM-D-5587   | Warp-   | 25 lbs                    | 11.34 kg     |
|                        |               | Fill-   | 25 lbs                    | 11.34 kg     |
| MULLEN BURST           | ASTM-D-3786   | 200 psi   | 14 kg/cm <sup>2</sup>     |              |
| FLAME RESISTANCE       | ASTM-D-6413   | Char Length   | 1 inch max.               | 2.54 cm max. |
|                        |               | Afterglow   | 12 sec. max.              | 12 sec. max. |
|                        |               | Flameout  | 5 sec. max.               | 5 sec. max.  |
| TEMPERATURE RESISTANCE |               | -40 °F to +450 °F   | -40 °C to 232 °C          |              |
| BASE FABRIC AND WEAVE  |               | Fiberglass/Plain Weave                                      |                           |              |
| COLOR AND COATING      |               | Aluminum Foil   |                           |              |
| BOND STRENGTH          | ASTM-D-1876   | 30 MIN. IMMERSION (BRAKE FLUID)<br>Result = No Delamination |                           |              |

DATA SHEET: 13089 REV: D DATE: 6/24/2015 \*All values are nominal unless otherwise specified.

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

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