



ALPHA

engineered composites

145 Lehigh Avenue, Lakewood, NJ 08701
T: 732.634.5700 **F:** 732.634.1430 alphainc.com

ALPHA SHIELD®
 STYLE 138 -AMA

DESCRIPTION

Alpha Shield® Style 138-AMA is a laminate of lightweight fiberglass fabric and vacuum metallized polyester film.

APPLICATIONS

Alpha Shield® Style 138-AMA is designed as a thermal barrier fabric to protect people and equipment from high levels of radiant energy. Its highly reflective surface rejects up to 90% of the heat from sources as high as 3000 °F.

ADVANTAGES

Alpha Shield® Style 138-AMA is lightweight, economical, flexible and very efficient.

PROPERTY DATA

STYLE 138 -AMA

| CHARACTERISTIC | METHOD | VALUES* | |
|------------------------|---------------------|--|--|
| | | <i>ENGLISH</i> | <i>METRIC</i> |
| WEIGHT | ASTM-D-3776 | 8.0 oz/sq. yd. ± 10% | 272 g/m ² ± 10% |
| THICKNESS | ASTM-D-1777 | 0.009" ± .001" | 0.229 mm ± .025 mm |
| TENSILE STRENGTH | ASTM-D-5035 | Warp- 275 lb./in. Fill- 290 lbs/in. | 49.16 kg/cm 51.79 kg/cm |
| TEAR STRENGTH | ASTM-D-5587 | Warp- 7 lbs. Fill- 7 lbs. | 3.18 kg 3.18 kg |
| FLAME RESISTANCE | ASTM-D-6413 | Char Length .7 inches max. Afterglow 1 sec. max. Flame Out 0 seconds | 1.78 cm max. 1 sec. max. 0 seconds |
| TEMPERATURE RESISTANCE | | -65 °F to +450 °F | -54 °C to 232 °C |
| COATING ADHESION | MIL-C-29143 Par. 4 | Result = Passes | |
| REFLECTIVITY | MIL-C-27347A Par. 4 | Result = Passes | |
| BLOCKING | FED STD 191/5872 | Result = #1 Scale Rating | |
| STIFFNESS | FED STD 191/5202 | Warp: .016 inch – lbs Fill: .0136 inch - lbs | |

DATA SHEET: 13108 REV: B DATE: 10/1/98 *All values are nominal unless otherwise specified.

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

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