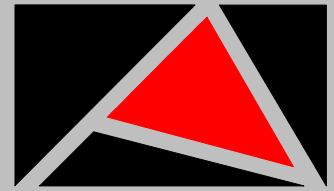


ALPHA ASSOCIATES, INC.

ALPHA - TEMP (SCRIM BASE)
STYLE VR-R PLUS



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DESCRIPTION

POLYPROPYLENE / SCRIM / METALLIZED POLYESTER

*THIS MATERIAL MEETS ALL CRITERIA FOR ASTM-C-1136-95...TYPES II & IV.

PROPERTY DATA
STYLE VR-R PLUS

| CHARACTERISTIC | METHOD | VALUES* | |
|--|--------------------------------|---------------------------------------|---------------------------------|
| | | <u>ENGLISH</u> | <u>METRIC</u> |
| WEIGHT | BASIS WEIGHT | 13.2 lbs/1000 sq ft +/- 10% | 64.1 g/m ² ± 10% |
| THICKNESS | ASTM-D-1777-96 | .007" nominal | 178 microns nominal |
| TENSILE STRENGTH | ASTM-C-1136 | MD 30 lbs/inch XD 30 lbs/inch | 5.25 kN/m 5.25 kN/m |
| ACCELERATED AGING | 30 days(95% RH,120 °F) @ 49 °C | No Corrosion No Delamination | No Corrosion No Delamination |
| BURST STRENGTH | ASTM-D-774 | 100 psi | 7.0 kg/cm ² |
| BEACH PUNCTURE | ASTM-C-1136 | 300 Beach units (39.75 in/lbs) | 8.88 Joules |
| LIGHT REFLECTIVITY | ASTM C-523 | Result-85% | |
| WATER IMMERSION | 24 hours @ 73°F (23°C) | No Delamination | No Delamination |
| PERMEABILITY (WVTR) | ASTM-E-96-94 | 0.02 Perms | 1.15 ng/N's |
| TEMPERATURE RESISTANCE | FED SPEC HHB-100B | -40 °F to 220 °F | -40 °C to 104 °C |
| MOLD RESISTANCE | ASTM-C-665 | No Growth | No Growth |
| FIRE TESTING UL 723 (CAN ULC-S201m) | COMPOSITE | FLAME SPREAD 25 SMOKE DEVELOPED 50 | |

DATA SHEET 13662 REV C DATE: 01/02/2006 * All values are nominal unless otherwise specified.

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

Note: Alpha's metal-building-insulation facings are produced with plastic films containing ultraviolet (UV) inhibitors. However, intense exposure to UV sources such as direct or indirect sunlight and/or high-output UV lighting is not recommended. Intense UV exposure will degrade the plastic film facing. The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. Since Alpha Associates, Inc. cannot anticipate all variations in actual end-use conditions, Alpha Associates, Inc. makes no warranties and assumes no liability in connection with any use of this information.