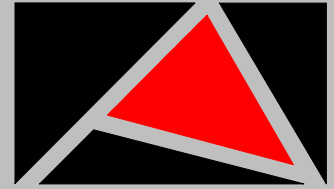


ALPHA ASSOCIATES, INC.

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



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DESCRIPTION

POLYPROPYLENE / SCRIM / METALLIZED POLYESTER

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

PROPERTY DATA
STYLE VR-R HD

CHARACTERISTIC	METHOD	VALUES*	
		<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	BASIS WEIGHT	17.0 lbs./1000 sq ft +/- 10%	83 g/m ² ± 10%
THICKNESS	ASTM-D-1777	.008" nominal	0.203 mm nominal
TENSILE STRENGTH	ASTM-C-1136	MD 45 lbs/inch XD 35 lbs/inch	7.88 kN/m 6.13 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-D-781	250 Beach units (145.75 in/lbs)	16.28 Joules
WATER IMMERSION	24 hours @ 73°F (23°C)	No Delamination	No Delamination
PERMEABILITY (WVTR)	ASTM-E-96	0.02 Perms	1.15 ng/N's
TEMPERATURE RESISTANCE	FED SPEC HHB-100B	-40 °F to 220 °F	-40 °C to 104 °C
LIGHT REFLECTIVITY	ASTM C-523	Result-85%	85%
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 13449 REV F DATE: 9/23/08 * 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.