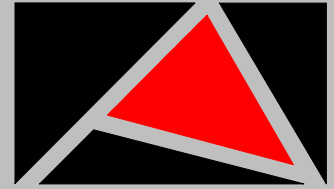


ALPHA ASSOCIATES, INC.

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



145 LEHIGH AVENUE LAKEWOOD, N.J. 08701
Phone: (732) 634-5700 Fax: (732) 634-1430

DESCRIPTION

POLYPROPYLENE / SCRIM / METALLIZED POLYESTER

*THIS MATERIAL MEETS ALL CRITERIA FOR ASTM-C-1136...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	.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	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-S102M)	COMPOSITE		
	FLAME SPREAD	25	
	SMOKE DEVELOPED	50	

DATA SHEET 13662

REV D

DATE: 9/15/09

* 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.