



ALPHA

high performance fabrics & composites

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VR 10				
DESCRIPTION	Reinforced Bleached Kraft-Metallized Polypropylene Film Laminate			
APPLICATIONS	Metal Building Insulation Facing			
CERTIFICATIONS	Meets all criteria for ASTM C1136 Types I, II, III, IV UL 723/ASTM E84, ULC-S102M fire testing			
COMPOSITION				
COMPONENT	DESCRIPTION	VALUES*		
		English	Metric	
White Film	Metallized Polypropylene	0.0011 inch	28.0 micron	
Adhesive	Flame Resistant			
Reinforcement	Tri-directional Fiberglass	5/inch (MD)	20/100 mm (MD)	
		5/inch (CD)	20/100 mm (MD)	
Kraft	White	12 lb./3000 SF	20 g/SM	
TYPICAL PHYSICAL PROPERTIES				
CHARACTERISTIC	METHOD	VALUES*		
		ENGLISH	METRIC	
BASIS WEIGHT	Scale	18.5 lbs/1000 SF	82.5 g/SM	
THICKNESS	ASTM-D-1777	0.009"	229 microns	
PERMEABILITY (WVTR)	ASTM-E-96	0.02 Perms	1.15 ng/N's	
BURST STRENGTH	ASTM-D-774	100 psi	7.3 kg/cm ²	
TENSILE STRENGTH	ASTM-C-1136	50 lbs/inch MD	8.75 kN/m	
		45 lbs/inch CD	6.13 kN/m	
ACCELERATED AGING	30 days @ 95% RH, 120 °F (49°C)	No Corrosion	No Corrosion	
		No Delamination	No Delamination	
TEMPERATURE RESISTANCE		-40 °F to 220 °F	-40 °C to 104 °C	
WATER IMMERSION	24 hours @ 73°F (23°C)	No Delamination	No Delamination	
MOLD RESISTANCE	ASTM-C-665	No Growth	No Growth	
LIGHT REFLECTIVITY	ASTM C523	85%	85%	
Physical properties are based upon nominal values. Weight / Thickness +/- 10%				
FIRE TESTING		UL723/ASTM E84		
		<u>Composite</u>	<u>Film</u>	<u>Kraft</u>
	FLAME SPREAD	25	5	0
	SMOKE DEVELOPED	50	20	15

DATA SHEET 14045 REV. E DATE: 10/07/13 *All values are nominal unless otherwise specified.

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 as these will degrade the plastic film facing.