



VSF HD

VINYL / SCRIM / FOIL

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Rigid Vinyl	0.002 inch	51 micron
Adhesive	Flame Resistant		
Reinforcing	Bi-directional Fiberglass	4 / inch (MD) 4 / inch (XD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Foil	Aluminum	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	29 lbs / 1000 ft ²	142 g / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hrft ² ·in Hg)	1.15 ng / N's
Bursting Strength	ASTM D774	80 psi	5.6 kg / cm ²
Puncture Resistance	ASTM C1136	50 beach units	1.5 Joules
Tensile Strength	ASTM C1136	45 lbs/inch width (MD) 30 lbs/inch width (XD)	7.9 kN / m (MD) 5.3 kN / m (XD)
Caliper / Thickness	Micrometer	0.016 inch	406 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 10°F (-12°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 150°F (66°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0 to -.63% (MD) 0 to +.50% (XD)	0 to -.63% (MD) 0 to +.50% (XD)
Emissivity (Foil)	ASTM E408	0.03	0.03
Light Reflectance (White Film)	ASTM C523	88.5%	88.5%

FIRE TESTING	UL-723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Vinyl Exposed	20	30	20	30
Foil Exposed	10	5	10	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%