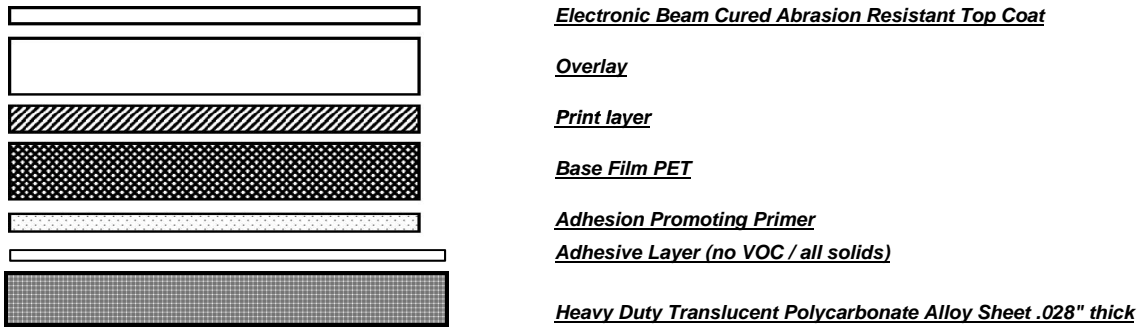


TECHNICAL DATA FOR VEN4MA[®]PF PVC-FREE ECO-SHEET

SpecTrim VEN4MA[®]PF PVC-FREE ECO-SHEET is a two ply calendered rigid PET film that has been printed with a decorative pattern. The composite is embossed with a variety of available patterns from SpecTrim Building Products. The composite includes an abrasion resistant topcoat. The sheet is suitable laminating and wrapping processes. Venforma[®]PF Wall Protection adheres the decorative PET film face to an impact resistant fire resistant backing.



Ven4ma[®]PF Fire Rating: UL Class 1 (ASTM E-84 Flame>20 / Smoke>450)

Ven4ma[®]PF Width: Film pattern width= 39". Finished and Trimmed Ven4maPF sheet width= 36".

Ven4ma[®]PF Thickness: .035"

Color: Is matched visually against a full width print repeat of the print standard. In the case of stock colors or existing colors, the Q. A. Manager shall maintain and provide, when necessary, samples of an existing standard.

PET CAP SHEET

<u>TYPICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>RESULT</u>	<u>TEST STANDARD</u>
Steel Wool Scratch	ASTM D2197-98	No scratch, slight visual effect	U S Testing Lab
Hoffman Scratch	ASTM D2197-98	1500 g / range=none	U S Testing Lab
Baseline Needle Mar	ASTM D5178-98	200 g / range=none	U S Testing Lab
45° Needle Mar	ASTM D5178-98	1867 g / range=none	U S Testing Lab
Taber Abrasion Resistance	ASTM D4060-01	11 mg after 500 cycles 20 mg after 1000 cycles Texture scuff, no abrading after 1000 cycles	U S Testing Lab
Impact Resistance	ASTM D2794-93	225 g- no failure 26.8 in lbs. 4.5 lb.- no failure 240.8 in lbs.	U S Testing Lab
Solvent Resistance	rubbing over 10 times (petroleum/ethanol/lacuer thinner)	no remarkable change	U S Testing Lab
Chemical Resisitance	NEMA LD-3 2005 3.4 ASTM D3023-98 (2003)	Avg. cleanability score= 23.5 no visible stains or damage after testing	U S Testing Lab
Dimensional Stability	at 100°C for 15 min.	MD= -7.0~0% TD= -2.0~2.0%	Mfg. test Lab
Tensile Strength	JIS K6732	MD= more than 24.5N TD= more than 19.6N	Mfg. test Lab
Elongation at Break	JIS BK6732	MD= more than 100% TD= more than 50%	Mfg. test Lab



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TECHNICAL DATA FOR VEN4MA® PF PVC-FREE ECO-SHEET

BOTTOM SHEET

<u>TYPICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>RESULT</u>	<u>TEST STANDARD</u>
Gardner Impact Resistance	ASTM D3029	23 ft-lb	U S Testing Lab
Tensile Strength	ASTM D882	@ Yield=8500 psi Ultimate=9000 psi	U S Testing Lab
Elongation at Break	ASTM D882	100-160%	U S Testing Lab
Puncture Resistance	ASTM D3763 Dynatup	9 ft-lb	U S Testing Lab

CHEMICAL RESISTANCE

SOLVENT

<u>Solvent Type</u>	<u>Results</u>
MEK	3
Toluene	2
Acetone	3
Alcohol	0

Rating Legend

- 0 = No Effect
- 1 = Slight Effect
- 2 = Moderate Effect
- 3 = Film bubbling/severe effect

NEMA STAIN RESISTANCE TEST LD 3.4 1995

<u>Test Material</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>SCORE</u>	<u>STAIN</u>
Acetone	x					0	N
Household Ammonie	x					0	N
Orange Juice	x					0	N
Hot Coffee	x					0	N
Hot Tea	x					0	N
Tomato Catsup			x			2	N
Yellow Mustard				x		3	N
Iodine	x					0	N
Stamp Pad Ink			x			2	N
#2 Pencil			x			2	N
Wax Crayon			x			2	N
Shoe Polish			x			2	N
Kool Aid	x					0	N
White Out				x		3	N
Permanent Marker				x		3	N
Ball Point Pen Ink				x		3	N
Cola Beverage	x					0	N
100 proof Alcohol	x					0	N
Vinegar	x					0	N
Nail Polish Remover	x					0	N
Lipstick		x				1	N
Dry Erase Marker		x				1	N
						Total	24

Cleaning Steps (See NEMA LD3 1995 For Full Description)

- 0 = Removed with water
- 1 = 20 cycles spray cleaner on sponge
- 2 = 20 cycles baking soda + spray cleaner on brush
- 3 = Nail polish remover + cotton ball
- 4 = Bleach + cotton ball
- 5 = Not removed. Describe stain as Moderate (M) or Severe (S)

Stain Resistance

- N = No Effect
- M = Moderate Effect, difficult to perceive stain
- S = Severe Effect easily perceived stain, or damage surface