Vitranar®

Technical Data Sheet

Flexible Resin Coated Aluminum - 5052 H32 Alloy

PRE-FINISHED ALUMINUM SHEETS

Front Coating	Coil-Coated AAMA 2605 PVDF Coating
Aluminum Sheet	5052 H32 Aluminum
Rear Coating	Primer

VITRANAR COATED ALUMINUM LEED DATA

Pre-Consumer	Up to 5% recycled content
Post-Consumer	Up to 30% recycled content
½ Pre-Consumer + Post-Consumer Recycled Content	
Pre-Finished Aluminum	Up to 32.5%

SHEET SIZES

Widths	62", 60", 48" Custom widths available on inquiry
Lengths	240" max.
Thicknesses	Min. 0.020" Max. 3mm (1/8")

PRODUCT WEIGHT

3.0mm (1/8")	1.7 lbs / ft²
2.5mm (0.100")	1.4 lbs / ft²
2.0mm (0.080")	1.1 lbs / ft²
1.5mm (0.063")	0.9 lbs / ft²
1.3mm (0.050")	0.7 lbs / ft²
1.0mm (0.040")	0.6 lbs / ft²
0.8mm (0.032")	0.5 lbs / ft²

FINISHES AVAILABLE

Pre-Finished Aluminum	Vitranar® Solid / Mica / Metallic Vitranar® Chromatic Vitranar® Patterns

PRODUCT TOLERANCES

Width	3mm
Length	± 1/8" to ± 3/16" (length dependent)
Thickness	Thickness dependent
Bow	0.032" to 0.500" (length dependent)
Flatness	1/8" to 1/2" (length dependent)
Squareness	Per table 7.14 ANSI H35.2
Surface Defects	The surface shall not have any irregularities such as dents, scratches and other imperfections in accordance with our 3rd party verified QC program.

VITRANAR FINISH WARRANTIES

Standard Warranty	Up to 20 years
Extended Warranty	Up to 40 years

CHEMICAL COMPOSITION

Standard	Element	Content
ASTM B209	Aluminum (Al)	95.8% - 97.7%
ASTM B209	Magnesium (Mg)	2.2% - 2.8%
ASTM B209	Chromium (Cr)	0.15% - 0.35%
ASTM B209	Iron (Fe)	0.0% - 0.4%
ASTM B209	Silicon (Si)	0.0% - 0.25%
ASTM B209	Zinc (Zn)	0.0% - 0.1%
ASTM B209	Copper (Cu)	0.0% - 0.1%
ASTM B209	Manganese (Mn)	0.0% - 0.1%

MECHANICAL PROPERTIES

Standard	Property	Data
ASTM B209	Elastic (Young's, Tensile) Modulus	9.9 x 10^6 psi
ASTM B209	Elongation at Break	12%
ASTM B209	Modulus of Resilience (Unit Resilience)	240 kJ/m^3
ASTM B209	Poisson's Ratio	0.33
ASTM B209	Shear Modulus	3.7 x 10^6 psi
ASTM B209	Shear Strength	20 x 10^3 psi
ASTM B209	Tensile Strength: Ultimate (UTS)	34 x 10^3 psi
ASTM B209	Tensile Strength: Yield (Proof)	26 x 10^3 psi
ASTM B209	Unit Rupture Work (Ultimate Resistance)	26 x mJ/m^3

THERMAL PERFORMANCE

Standard	Descriptions	Test
ASTM D696	Coefficient of Linear Expansion	13.8 x 10^{-6} in/in/°F (Aluminum)

FIRE PERFORMANCE

Standard	Descriptions	Test	Test Result
ASTM E136	Fire Performance of Aluminum	ΔT < 86°F	Non-Combustible
ASTM E84	Flame Spread	<25	PASS
ASTM E84	Smoke Development	<450	PASS
NFPA 285	Non-combustible per ASTM E136; the wall assembly is reviewed under the applicable code		

AAMA 2605 STANDARD PVDF COATING

Standard	Descriptions	Test	Test Result
ASTM B117	Salt Spray Resistance	5% salt fog at 95°F	Passes 4000 hrs. Less than 1/16" avg creepage from scribe. None or few #8 blisters
ASTM D523	Specular Gloss Test	Standard @ 60°	Varies per finish
ASTM D1308	Alkali Test	10%, 25% NaOH, 1hr	No Effect
ASTM D714	Blistering of Paint Test	100% Relative Humidity @ 95°F	Passes 4000 hrs.
ASTM D2244	Exterior Exposure	10 years @ 45° South Florida	PASS - Max. 5 fade
ASTM D2247	Water Resistance	100% Relative Humidity @ 95°F	No #8 blisters
ASTM D2794	Reverse Impact	1.5 x metal NOMINAL THICKNESS (Aluminum)	No cracking or adhesion loss
ASTM D3359	Adhesion	Reverse impact 1/16" crosshatch	No adhesion loss
ASTM D3363	Film Hardness	Pencil Test F - 2H	PASS
ASTM D4145	Prepainted Metal Coating Flexibility	T - Bend	0 - 2 T - Bend, No pick off
ASTM D4214	Chalk Resistance	10 years @ 45° South Florida	Pass - Max. 8 Chalk

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