

Film Properties		Test Methods & Descriptions	CERAM-A-STAR® 1050	
<b>SUBSTRATE</b>			Hot Dipped Galvanized Galfan & Galvalume®	Aluminum
<b>Dry Film Thickness:</b>		ASTM <sup>1</sup> D1400, D1005, D4138 (NCCA <sup>2</sup> II-13,14,15)	0.20 - 0.25 Mils Primer 0.70 - 0.90 Mils Topcoat	0.20 - 0.25 Mils Primer 0.70 - 0.90 Mils Topcoat
<b>PHYSICAL PROPERTIES</b>				
<b>60° Specular Gloss:</b>		ASTM D523	35%	35%
<b>Pencil Hardness:</b>		ASTM D3363 (NCCA II - 12) Eagle Turquoise Pencil	"F" - Minimum	"F" - Minimum
<b>Flexibility:</b>	T-Bend Mandrel Bend	NCCA II - 9 ASTM D522 180° bend around 1/8" mandrel	2T - No Tape-Off No Tape Off	2T - No Tape-Off No Tape Off
<b>Adhesion:</b>		ASTM D3359 (NCCA II - 5) Reverse Impact Cross Hatch	No Adhesion Loss	No Adhesion Loss
<b>Reverse Impact:</b>		ASTM D2794 (NCCA II - 6) 80 inch-pound impact with a 5/8" steel ball or, = 2000 x decimal steel thickness in inches	No Adhesion Loss	No Adhesion Loss
<b>ABUSE TOLERANCE</b>				
<b>Abrasion Resistance:</b>		ASTM D968, Liters to expose 5/32" area of substrate	30 Liters Per Mil of Film	30 Liters Per Mil of Film
	Falling Sand Transit	Based on topside to backer contact in transit after painting	Acceptable	Acceptable
<b>Mortar Resistance:</b>		AAMA <sup>8</sup> 605.2 (24 Hour Pat Test)	No Effect	No Effect
<b>Detergent Resistance:</b>		ASTM D2248 3% @ 100°F, 72 Hours	No Effect	No Effect
<b>RESISTANCE TO CORROSION, CHEMICALS &amp; POLLUTION</b>				
<b>Acid Pollutants:</b>		Per ASTM D1308, Proc.6.2 :		
	10% Muriatic Acid	24 Hours	No Effect	No Effect
	20% Sulfuric Acid	24 Hours	No Effect	No Effect
	70% Nitric Acid Vapors	AAMA 605.2, ASTM G87 (30 Minutes)	< 5 dE Color Change <sup>6</sup>	< 5 dE Color Change <sup>6</sup>
	Kesternich Test	SO <sub>2</sub> Cyclic Test, 2 Liters	10 cycles <sup>5</sup>	10 cycles <sup>5</sup>
<b>Alkali Resistance:</b>				
	Sodium Hydroxide	ASTM D1308 10%, 25% (1 Hour)	Minimal Effect	Minimal Effect
<b>Salt Fog:</b>		ASTM B117 5% Salt Fog @ 95 °F	1000 Hours <sup>4</sup>	3000 Hours <sup>4</sup>
<b>Humidity:</b>		ASTM D2247 100% Relative Humidity @ 100 °F	1500 Hours <sup>7</sup>	1500 Hours <sup>7</sup>
<b>WEATHERING PROPERTIES</b>				
<b>Accelerated Weathering:</b>		ASTM D822, G152, G153 Weatherometer	2000 Hours	2000 Hours
		ASTM D2244 Color	< 5 dE Color Change <sup>6</sup>	< 5 dE Color Change <sup>6</sup>
		ASTM D4214 Chalk	Maximum #8	Maximum #8
<b>EMMAQUA Testing:</b>		Per ASTM D4141	Superior Results	Superior Results
<b>Exterior Weathering :</b>			Superior: Maximum	Superior: Maximum
	Florida Exposure	ASTM D2244 Color	< 5 dE Color Change <sup>6</sup>	< 5 dE Color Change <sup>6</sup>
	10 Years @ 45° South	ASTM D659 Chalk	Maximum #8	Maximum #8
	Film Erosion	AAMA 605.2	Less than 20% film loss	Less than 20% film loss

1 American Society Testing and Materials

2 National Coil Coaters Association

3 Higher and lower glosses available upon request.

4 Less than 1/8" creep from scribe. No more than few #8 blisters.

5 No objectionable color change.

6 Hunter d (delta) E color difference units.

7 No more than few #8 blisters.

8 American Architectural Manufacturers Association

• CERAM-A-STAR® 1050 is a trademark of Akzo Nobel Coatings, Inc.



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