

## Product Specification Document ACAD-949MD/JA Rev 1

Product ID:	949MD/JA	Diffuse Lightin	g Sheet			
Application:		ting Reflectors	-	vers		
Material Specif	ication:					
Alloy:	5005					
Temper:	H14					
Mechanical	Properties (typical	):				
Tensile Strength:		165 N/mm <sup>2</sup>	(24,00	00 psi)	For White Paint:	
Yield Strength:		145 N/mm <sup>2</sup>	•	00 psi)	1T bend:	n/a
Elongation:		5%	<b>X</b>	• •	1T bend – dry heat:	n/a
Minimum Bend Radii:		0Т			0T bend:	n/a
Optical / Anodi	zed Properties:					
Total Reflectance (TR%) <sup>1</sup> :		80% minimum			<sup>1</sup> (Technidyne TR-2 (ASTM 1651-94))	
Distinctness of Image (DI) <sup>2</sup> :		n/a			<sup>2</sup> (Hunter Labs D47 Dorigon (ASTM E430-83))	
Specular Reflectance (RS) <sup>2</sup> :		n/a			<sup>3</sup> (DIN 67530)	
15° Diffuseness (15°) <sup>2</sup> :		n/a			<sup>4</sup> (Byk Gardner Micro 0	Gloss Meter)
Dr. Lange $60^{\circ 3}$ :		w/g n/a	a/g	n/a	<sup>5</sup> (ASTM B137-89)	,
Gardner 60 ° Gloss⁴:		w/g 30 - 85	a/g	n/a	<sup>6</sup> (Hunter Lab mini-Sca	an XE Plus)
Anodize Film Thickness <sup>5</sup> :		5			0.00015 inch)	
Iridescence				(	,	
Color <sup>6</sup> :		L* n/a	a*	n/a	b* n/a	
Availability:	Sheet and Coil					
Gage:	0.30 to 1.00 mm	n <i>(</i>	0.012 to 0.0	39 inch)		
Width:	12.7 to 1250 mr	· · · · · · · · · · · · · · · · · · ·	(0.5 to 49.213 inch)			
Length:		up to 3660 mm (up to 144 inch)				
Tolerances (sta	•		-	•	sales representative.)	
•	From:	0.25 to 0.40 mm	•	0.025 mm	•	1/0.001 in ch
Gage:		0.23 to 0.40 mm		0.025 mm 0.040 mm	(0.010 to 0.016 inch, +/- 0.001 inch) (0.017 to 0.032 inch, +/- 0.0015 inch)	
		0.81 to 1.00 mm		0.040 mm		,
		0.01 10 1.00 1111	+/- (	0.050 mm	(0.033 to 0.040 inch,	+/- 0.002 mcm)
Slit Width:	From:	12.5 to 305 mm	+/- (	0.125 mm	(0.5 to 12 inch, +/- 0.	.005 inch)
		306 to 610 mm	+/- (	0.38 mm	(12.1 to 24 inch, +/-	0.015 inch)
		611 to 1250 mm	+/- (	0.50 mm	(24.1 to 50 inch, +/-	0.020 inch)
Sheet:	Length:	Up to 1524 mm	±/-	1.0 mm	(Up to 60 inch, +/- 0.	040 inch)
U.I.COL	Longui.	1525 to 3050 mi		1.5 mm	(60 to 120 inch, +/- 0	,
		3051 to 3660 mi		2.0 mm	(120 to 144 inch, +/-	,
					· ·	,
	Squareness:1	Up to 1200 mm		0.5 mm	(Up to 48 inch, +/- 0.	•
		1201 to 2400 mi		1.0 mm	(49 to 95 inch, +/- 0.0	
		2401 to 3660 mi		1.5 mm	(96 to 144 inch, +/- 0	0.060 inch)
		<sup>1</sup> Difference	in diagonals	6		
Lateral Bow	(in one meter):	Width Under 30	0 mm: 2.5 n	nm max.	(Width Under 12 incl	n: 0.100 inch)
		Width Over 300			(Width Over 12 inch:	,
Flatness:	Height between				·	- /
Burr:	10% of gage	Not to exceed .0	8 mm (.003	inch)		