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Product Specification Document

ACAD-425OE/BF Rev 3

Product ID:		425OE/BF Super UltraBrite 95		
Application:		Enhanced Lighting Reflectors, Natural Tube and LCD Reflectors		
Material Specification:				
Alloy:	1090 base - 99.99% Aluminum PVD			
Temper:	H19			
Mechanical Properties (typical):				
Tensile Strength:	180 N/mm ²	(26,000 psi)	For White Paint:	
Yield Strength:	165 N/mm ²	(24,000 psi)	1T bend:	n/a
Elongation:	4%		1T bend – dry heat:	n/a
Minimum Bend Radii:	1T		0T bend:	n/a
Optical / Anodized Properties:				
Total Reflectance (TR%) ¹ :	95% minimum		¹ (Technidyne TR-2 (ASTM 1651-94))	
Distinctness of Image (DI) ² :	96 minimum		² (Hunter Labs D47 Dorigon (ASTM E430-83))	
Specular Reflectance (RS) ² :	84 minimum		³ (DIN 67530) – Std = 93	
15° Diffuseness (15°) ² :	0.00		⁴ (Byk Gardner Micro Gloss Meter)	
Dr. Lange 60° ³ :	w/g	85 - 95	a/g	85 - 95
Gardner 60° Gloss ⁴ :	w/g	n/a	a/g	n/a
Anodize Film Thickness ⁵ :	n/a to n/a microns		(n/a to n/a inch)	
Iridescence Rating:	Premium Low Iridescence			
Color ⁶ :	L*	n/a	a*	n/a
			b*	n/a
Availability: Sheet and Coil				
Gage:	0.3 to 0.80 mm		(0.012 to 0.032 inch)	
Width:	12.7 to 1000 mm		(0.5 to 39.370 inch)	
Length:	up to 3660 mm		(up to 144 inch)	
Tolerances (standard): (Tighter tolerance may be possible. Contact your sales representative.)				
Gage:	From:	0.25 to 0.40 mm	+/- 0.025 mm	(0.010 to 0.016 inch, +/- 0.001 inch)
		0.41 to 0.80 mm	+/- 0.040 mm	(0.017 to 0.032 inch, +/- 0.0015 inch)
		0.81 to 1.00 mm	+/- 0.050 mm	(0.033 to 0.040 inch, +/- 0.002 inch)
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)
		1525 to 3050 mm	+/- 1.5 mm	(60 to 120 inch, +/- 0.060 inch)
		3051 to 3660 mm	+/- 2.0 mm	(120 to 144 inch, +/- 0.080 inch)
	Squareness: ¹	Up to 1200 mm	+/- 0.5 mm	(Up to 48 inch, +/- 0.020 inch)
		1201 to 2400 mm	+/- 1.0 mm	(49 to 95 inch, +/- 0.040 inch)
		2401 to 3660 mm	+/- 1.5 mm	(96 to 144 inch, +/- 0.060 inch)
¹ Difference in diagonals				
Lateral Bow (in one meter):	Width	Under 300 mm: 2.5 mm max.	(Width Under 12 inch: 0.100 inch)	
		Over 300 mm: 1.25 mm max.	(Width Over 12 inch: 0.050 inch)	
Flatness:	Height between waves:	1% of wave length, 8mm (0.32 inch) maximum.		
Burr:	10% of gage	Not to exceed .08 mm (.003 inch)		