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Product Specification Document

ACAD-498MR-OA Rev 1

Product ID:	UltraWhite 90TR Low Gloss	Textured Surface	498MR-OA	
Application:	LED Reflectors and Fixtures	■ Traditional Reflectors and Louvers		
Material Specification:				
Alloy:	3105			
Temper:	H24			
Mechanical Properties (typical-Not for Design):				
Tensile Strength:	179 N/mm ²	(26,000 psi)		
Yield Strength	≥152 N/mm ²	(≥23,000 psi)		
Elongation:	≥10%			
Minimum Bend Radii:	2T			
Optical Properties:				
Total Reflectance (TR%) ³ :	90% minimum (CIE Y)		¹ (Technidyne TR-2 (ASTM 1651-94))	
Gardner 60° Gloss ²	With Grain 4-8 Across Grain 4-8		² (BYK Gardner Micro Gloss Meter)	
Color ³ :	L* 94 to 98	a* 3 to 1	b* -1 to 3	
			³ (Hunter Lab mini-Scan XE Plus)	
Availability:	Sheet and Coil			
Gage:	0.43 to 1.01 mm	(0.017 to 0.040 inch)		
Width:	12.7 to 1282 mm	(0.50 to 50.500 inch)		
Length:	up to 3660 mm	(up to 144 inch)		
Tolerances (standard):	(Tighter tolerance may be possible. Contact your sales representative.)			
Gage:	From:	0.43 to 0.80 mm	+/- 0.040 mm	(0.017 to 0.032 inch, +/- 0.0015 inch)
		0.81 to 1.01 mm	+/- 0.050 mm	(0.033 to 0.040 inch, +/- 0.002 inch)
Slit Width:	From:	12.7 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 1282 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)
	Width 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)		