



Product Specification Document

ACAD-817YB-DA Rev 2

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|---|--------------------------|---|---------------------------|---|---|
| Product ID: 817YB/DA Brushed Clear | | | | | |
| Application: Interior Architectural and Decorative | | | | | |
| Material Specification: | | | | | |
| Alloy: | 5005 | | | | |
| Temper: | H14 | | | | |
| Mechanical Properties (typical): | | | | | |
| Tensile Strength: | 165 N/mm ² | | (24,000 psi) | For White Paint: | |
| Yield Strength: | 158 N/mm ² | | (23,000 psi) | 1T bend: | n/a |
| Elongation: | 3% | | | 1T bend – dry heat: | n/a |
| Minimum Bend Radii: | 1T | | | 0T bend: | n/a |
| Optical / Anodized Properties: | | | | | |
| Total Reflectance (TR%) ¹ : | % minimum | | | ¹ (Technidyne TR-2 (ASTM 1651-94)) | |
| Distinctness of Image (DI) ² : | n/a | | | ² (Hunter Labs D47 Dorigon (ASTM E430-83)) | |
| Specular Reflectance (RS) ² : | n/a | | | ³ (DIN 67530) | |
| 15° Diffuseness (15°) ² : | n/a | | | ⁴ (Byk Gardner Micro Gloss Meter) | |
| Dr. Lange 60° ³ : | w/g | n/a | a/g | n/a | ⁵ (ASTM B137-89) |
| Gardner 60° Gloss ⁴ : | w/g | 150 to 190 | a/g | n/a | ⁶ (Hunter Lab mini-Scan XE Plus) |
| Anodize Film Thickness ⁵ : | 2.18 to 3.92 microns | | (0.00009 to 0.00015 inch) | | |
| Iridescence Rating: | Not Controlled | | | | |
| Color ⁶ : | L* | 73 to 77 | a* | -2.00 to 2.00 | b* 2.00-6.00 |
| Availability: Sheet and Coil | | | | | |
| Gage: | 0.3 to 1.27 mm | | (0.012 to 0.050 inch) | | |
| Width: | 12.7 to 1250 mm | | (0.50 to 49.213 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 0.050 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) | |
| | 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) | | | |