



CLEARMATT® IS A PRODUCT DEVELOPED BY LORIN INDUSTRIES AND DESIGNED SPECIFICALLY FOR GENERAL USE FOR INTERIOR APPLICATIONS.

ClearMatt® has a thin anodize film thickness that make it quite versatile for many applications while providing the designer with a lower cost alternative and still maintain a protective anodized surface.

INDUSTRY DESIGNATIONS

Aluminum Association
AA-M12-C22-A21
Mil A-8625F Classification
Type II Sulfuric Anodize

INDUSTRY STANDARDS

Mil A-8625F Anodizing Standard
Anodic coatings for aluminum and aluminum alloys

ALUMINUM PROPERTIES

Alloy 5005
Temper Half Hard
Finish Mill Finish

MECHANICAL PROPERTIES

UTS 20-26 ksi [138-179 MPa]
YTS 15 min [103 MPa]
Elongation 4% - 5% min

CHEMICAL PROPERTIES

Si 0.30 %
Fe 0.7 %
Cu 0.20 %
Mn 0.20 %
Mg 0.50 - 1.1 %
Cr 0.10 %
Zn 0.25 %
Other 0.15 %
Al Remainder

ANODIZE FILM THICKNESS

Decorative Anodic Layer:

ANODIZE FINISH PROPERTIES

Optical N/A
Gloss Medium Matte
Color Natural Aluminium
Color Target N/A
UV Stable Yes
Environment Interior
Quality Grade 2
Other None

This product is available for exterior use; a minimum film thickness of 0.250 mils (6 µm).

WIDTH AVAILABILITY

48.0" (1219 mm)
Other widths can be custom ordered.

GAUGE AVAILABILITY

0.010" (0.2 mm)
0.014" (0.3 mm)
0.015" (0.38 mm)
0.0157" (0.39 mm)
0.016" (0.4 mm)
0.020" (0.5 mm)
0.024" (0.6 mm)
0.025" (0.63 mm)
0.030" (0.7 mm)
0.031" (0.78 mm)
0.0325" (0.82 mm)
0.035" (0.88 mm)
0.037" (1.0 mm)
0.038" (0.9 mm)
0.039" (0.99 mm)
0.040" (1.0 mm)
0.046" (1.1 mm)
0.047" (1.19 mm)
0.048" (1.2 mm)
0.049" (1.24 mm)
0.050" (1.27 mm)
0.060" (1.5 mm)
0.063" (1.6 mm)
0.077" (1.9 mm)
0.080" (2.0 mm)
0.083" (2.1 mm)

ANODIZED FINISH TEST DATA

| CHARACTERISTIC | TEST METHOD | STANDARD | TEST RESULTS |
|---------------------|-----------------------------------|---|--|
| Oxide Layer, Weight | ASTM B137 - Coating Dissolution | | > 0.8 mg/cm ² (4.8 mg/in ²) |
| Gloss Uniformity | ASTM D523 - 60° Gloss Reflectance | Medium Coarse, Matte Finish | Lorin Gloss E7H, Nominal Target 50 |
| Film Hardness | ASTM D3363 - Pencil Hardness | Based on a anodic film thickness, 3.2 µm (0.125 mils) | 4H Hardness |
| Seal Quality | ASTM B136 - Dye Stain | Dye Stain Test, No Stain Visible | Pass, No Visible Stain |

SECONDARY SERVICES

- Shearing, Width Capabilities:**
7" (178mm) - 62" (1575 mm)
- Shearing, Length Capabilities:**
Up to 192" (4876 mm)
- Shearing, Loading Gauge:**
Up to 0.080" (2.0 mm)
- Slitting, Width Capabilities:**
0.75" (19 mm) min
- Slitting, Loading Gauge:**
Up to 0.100" (2.5 mm)
- Other Secondary Services:**
Protective peel-able films
International packaging
Perforating and embossing

MAINTENANCE AND CLEANING

The anodized aluminum finish can be washed with mild soap and water followed by a clean water rinse. For more information on cleaning anodized aluminum, please refer to the Aluminum Association Publication 92, Care of Aluminum or AAMA 609 & 610-09, Cleaning and maintenance guide for architecturally finished aluminum.

SUSTAINABILITY AND LEED

- Recycled Content, 5005 alloy:**
100% recyclable
Recycled Content, 6.6%
Reclaimed-Virgin Material, 93.4%
2012.04.30 Mill#6
- Volatile Organic Compounds:**
The aluminum oxide layer does not contain any VOC's

AVAILABILITY

The standard lead time for stocked gauges and widths is two weeks for anodizing and one week for any secondary services such as slitting, shearing and applying transparent protective films or paper.

Please check availability of Non-Stocked materials by contacting our sales staff using our toll free number 800.654.1159 or email your request to info@lorin.com. Some raw materials may have extended lead times.

TECHNICAL SUPPORT

A staff of factory trained personnel are available to offer technical assistance. Please call our toll free number 800.654.1159 or email your question to info@lorin.com.

PRODUCT SUPPORT PARTNERS

Lorin Industries works very closely with many manufacturers' in multiple markets who specialize in anodized aluminum fabrication. Our support staff can assist you if you are looking for finished components. Please call our toll free number 800.654.1159 or email your request for product and application support to info@lorin.com.

WARRANTY

A limited 20 year warranty is available upon request. The warranty is issued on a per project basis and can be applied for on line by completing an application for warranty at Lorin.com.