

## AnoGrip® Brand Information Sheet

### General Description

AnoGrip is a special continuous coil process for non-decorative anodized aluminum that leaves both sides for the aluminum sheet with millions of microscopic open pores that lock in paints, powder coats, adhesives and more creating a permanent molecular bond.

### Targeted End Applications

- Emblems & Nameplates
- Exterior Aluminum Composite Panels
- High Pressure Laminate Applications including Architectural and Transportation Panels
- Interior Automotive and Transportation Trim Components
- Powder Coated / Painted End-Product Applications

### Key Product Benefits

- **Cost Savings** – AnoGrip products arrive clean and ready for immediate production and may eliminate many of the pre-adhesive / pre-finishing preparation steps in the production process, saving you time and money.
- **Superior Bonding** – The bond between AnoGrip and the adhesive or coating is at a molecular level rather than a typical surface level meaning that the bond will not de-laminate or peel over time, nor is it effected by weather or water elements that can cause delaminating over time.

### AnoGrip Standard Portfolio Offering

- Medium Adhesion AnoGrip – Adhesion = 10 Pounds per Inch
- Heavy Adhesion AnoGrip – Adhesion = 20 Pounds per Inch

### AnoGrip Production Capabilities Standards

Imperial		Metric	
Gauge Range	Maximum Width	Gauge Range	Maximum Width
0.007" - 0.040"	60.0"	0.18mm - 1.0mm	1524mm
0.007" - 0.032"	52.0"	0.18mm - 0.8mm	1320mm
0.032" - 0.080"	48.0"	0.8mm - 2.0mm	1220mm

Additional gauge / width combinations may be available upon request with development.

## **AnoGrip Brand Information - cont.:**

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### **Performance Standards**

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- **Adhesion**
  - Medium Adhesion AnoGrip = Minimum 10 pounds per inch.
  - Heavy Adhesion AnoGrip = Minimum 20 pounds per inch.
  - All AnoGrip coils are sampled and tested per ASTM 1876 T-Peel Test using 1.6 mil 3M®DP420 Epoxy for adhesive strength and are certified prior to release for shipment.
  - Adhesion is guaranteed for both sides of the product.
  
- **Shelf Life** – AnoGrip is guaranteed to maintain the same pull strength as outlined above for a minimum of 6-months from date of manufacture.  
When shipping AnoGrip products into other climates, coils should be allowed to completely reach room temperature prior to opening. A 24-hour quarantine period is recommended.
  
- **Visual Quality** – AnoGrip is a functional product and therefore not subject to Lorin visual standards. Material will be shipped free of any physical material defects, including dents, scratches or other surface imperfections that may impact adhesion. Lorin recommends using AQ Quality aluminum for any AnoGrip application where the material will be seen.

### **Working with AnoGrip**

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#### **High Pressure Laminate Applications**

AnoGrip has successfully performed within a High Pressure Lamina (HPL) process under the following standard conditions:

- 320 degree Fahrenheit heat
- High Pressure / High Heat – 1 Hour
- Bonded with a phenolic resin soaked core sheet.

Lorin always recommends that a customer qualify our material within their own production process prior to ordering full production quantities.

#### **Recommended Adhesives for Use With AnoGrip**

Adhesives are dependent on the production process conditions and core material with which the anodized aluminum with Adhere will be bonded. Lorin does not recommend any specific adhesives for use with AnoGrip.

#### **Weldability**

Due to the thin anodic film on this product, AnoGrip may be TIG or MIG welded. Testing has shown that AnoGrip may be welded through processes similar to those used on raw aluminum.