



Durable UID and Industrial Asset Tracking Labels with Any CO₂ Laser

DuraBlack™ is the new standard in durable, one-step, on-demand asset marking.

Its durability, ease of processing and flexible attachment options make it the easiest choice you'll make when it comes to marking and tracking long-term assets.

Resistant to abrasion, heat, UV, salt-corrosion and chemicals, DuraBlack outperforms the leading laser-markable acrylic and anodized aluminum labels *without the added step of a protective overcoat*.

Don't take a chance with mission critical assets – use DuraBlack to insure your labels read throughout the item's lifecycle.

Product Benefits:

Durable Performance

- Surpasses Item Unique Identification (UID) performance standards with resistance to abrasion, heat, weather, corrosion and chemicals.
- Creates precise, durable graphics with any CO₂ laser – even for small 10mil 2D codes.
- Matte finish reduces reflection for combat situations.

Easy Processing

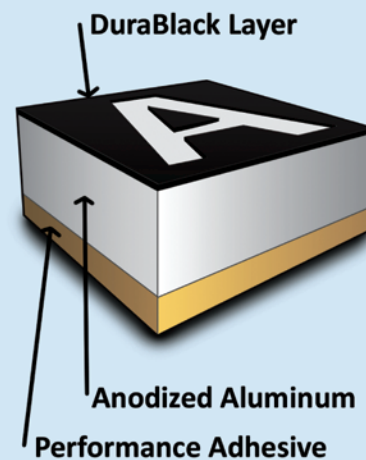
- Easy to process and produce “A” verification grade labels.
- Aluminum backing reduces damage from over-marking; known to cause failure in acrylic label stocks.

Flexible Attachment Options

- Unlimited attachment options including 3M 350 high-performance adhesive, CARC adhesive or mechanical attachment (rivets).
- Flexible 0.005” foil thickness adheres to curved surfaces.
- Available in pre-cut blanks from several independent converters so you all need to do is mark and apply.

DURABLACK™
LASER MARKABLE ALUMINUM

Cross-section View



DuraBlack Technology:
**Resistant to abrasion,
heat, UV/weather,
corrosion and chemicals.**

In side-by-side testing based on UID standards, DuraBlack™ outperforms the leading laser-markable acrylic and anodized aluminum labels.

	DuraBlack™ Works Here*	Where Others Fail*...
Durability Characteristics	Outdoor Exposure (PASS) 2,000 hrs of accelerated UV/weather with Q-Sun XE-3/H5	
	Abrasive Environments (PASS) 4,000 cycles on a Taber Abraser, CS17 with 1Kg wheel load	<ul style="list-style-type: none"> black anodized aluminum fails after 500 cycles laser markable acrylic fails after 500 cycles
	High-Temperature Environments (PASS) 700°F for one hour	<ul style="list-style-type: none"> black anodized aluminum fails at 400°F laser markable acrylic fails at 600°F
	Marine Environments (PASS) 30 days of salt fog exposure as per ASTM B117	
Attachment Options	Corrosive/Chemical Environments (PASS) 96 hrs in MIL-STD-810G chemicals and several others	<ul style="list-style-type: none"> black anodized aluminum (Ammonia, Greased Lightning™ after <24 hrs) laser markable acrylic (Skydrol™, MEK after <24hrs; Gasoline after 48hrs) laser markable acrylics don't give you a choice!
	Flexible Attachment Options 3M high-performance adhesive or rivets – your choice	
	Flexible 0.005" Thickness Adheres to curved surfaces	<ul style="list-style-type: none"> most black anodized aluminum unavailable in foil gauges established converter network to serve you
Easy Processing	Available in Pre-cut Blanks Contact an independent converter to outsource your fabrication	
	Forgivable Laser Settings Easy to process and produce "A" verification grade labels	<ul style="list-style-type: none"> DuraBlack™ does not require an extra overcoat for protection! known to cause failure in acrylic label stocks
	Anodized Aluminum Backing Reduces damage from over-marking	
	Matte Finish Reduces reflection for combat situations	<ul style="list-style-type: none"> many laser markable acrylics are too reflective for combat

*Test conducted in accordance with DoD Item Unique Identification (IUID) MIL-STD-130. Chemicals tested include all MIL-STD-810G fluids and several others (see footnotes for a full list). Outcomes were measured with a Siemens/Microscan verifier on 15mil 2D barcodes. A drop of more than two letter grades (typically below a "C" grade) indicates failure – in accordance with AIM DPM-1-2006 and MIL-STD-130N.

Additional Processing Information

Specifications

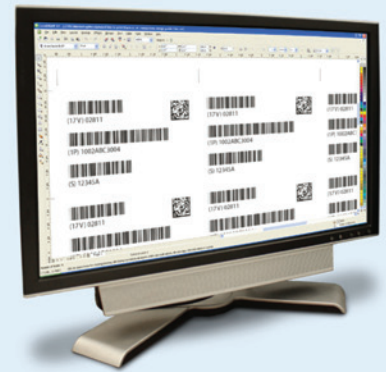
Sizes: 10" x 12", 12" x 20", 20" x 24"

Thicknesses: .005", .020"

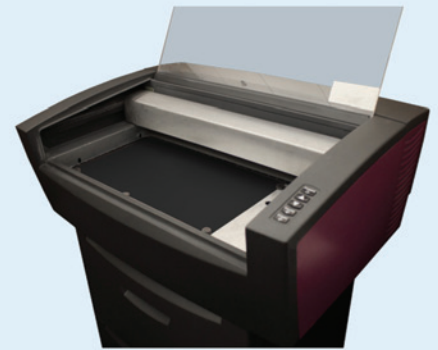
Attachment Options: 3M 350 Series High-Performance Adhesive (9675 or 9485),

Mechanical (rivets) or let us build to your specification.

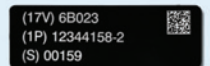
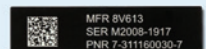
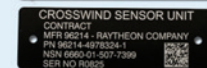
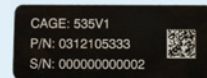
Processing DuraBlack



1. Design your piece using appropriate software.



2. Load and mark material.



3. Cut and mount your AlumaMark Piece.

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