



# The only laser markable metal certified for outdoor use



DuraBlack™ is CO2 laser markable aluminum for durable, on-demand marking for harsh operating environments

> DuraBlack is resistant to sunlight (UV-radiation), abrasion, high-temperatures, salt-spray and chemical exposure.

Because of its ability to perform across a range of challenging environments, DuraBlack meets several government, industrial and military specifications including MIL-STD 130N, A-A-50271 (≈MIL-P-514D) and MIL-STD-15024F, Type L.

# **Applications:**

variable text labels and plates, UID, Bar codes, manufacturer plates, logistics, arboretums

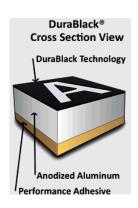






# Make signage with CO2 laser on Durablack

Composed of a multi-level coating available upon 0.005" or 0.020" thick aluminum, DuraBlack can be attached to either curved or flat surfaces with adhesive, rivets or screws. It is imaged wi th any CO<sub>2</sub> marking laser to produce a durable, high resolution barcode or human-readable image.



	DuraBlack*	Black Anodized Aluminum	Laser Markable Acrylic Tape	Metalphoto*
Weather/UV Resistance (2,500 hours)	PASS	FAIL @1,500 hrs	PASS	PASS
Abrasion Resistance (4,000 cycles, 1 Kg)	PASS	FAIL @ <500 cycles	FAIL @ <500 cycles	PASS
Temperature Resistance (700°F for 1 hour)	PASS	FAIL @ 400°F	FAIL @ 550°F	PASS
Salt Spray (30 day exposure)	PASS	PASS	PASS	PASS
Fluid Resistance (96 hour submersion)	PASS	FAIL ⊛ Ammonia & Alkaline Cleaner	FAIL ⊗ Gasoline (48 hrs), MEK & Ethyl Acetate	PASS

## Processing DuraBlack® in a few steps







Load and mark material



Cut and mount your DuraBlack part

### **ADVANTAGES**

### Durable performance

Meets Item Unique Identification (UID) military bar code performance standards for many applications.

Resistant to weather/UV, abrasion, high-temperatures and fluid exposure.

Produces durable, high-resolution barcode or human-readable images.

Integrated abrasion resistant coating reduces the need to apply a protective topcoat.

Matte finish reduces reflection for combat situations.

### Easy processing

Easy to mark and produce "A" verification grade labels with any CO<sub>2</sub> laser.

Aluminum backing eliminates potential damage from overmarking.

### Flexible attachment options

Attachment options include 3M 350 high-performance adhesive, rivets or screws.

Available in 0.005" or 0.020" thicknesses for adherence to either curved or flat surfaces.

Available in pre-cut blanks so all you need to do is mark and apply.

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