Teflon® Coated Nameplates

PHOTO ANODIZED PRODUCT LINE

Teflon® Coated Nameplates are easy to clean, acid-resistant and temperature-resistant up to 500 °F. Available with or without a barcode, Teflon® Coated Nameplates are ideal for customers who require permanent nameplates to stand up in extremely harsh environments. Their fast and accurate barcode reading makes the scanning process simple.

Black copy, logos and barcodes are photographically reproduced for maximum clarity and detail and then sealed within the anodic layer of the aluminum - ensuring accurate and reliable reads for years to come. Optional second colors are digitally inkjet printed.

Material and Design Specifications

- .012" (0.31 mm) matte anodized aluminum is standard
- Optional thicknesses include .020" (0.51 mm), .032" (0.82 mm) and .063" (1.61 mm)
- Various sizes available
- 0.0035" low surface energy pressure-sensitive acrylic adhesive is standard
- Optional adhesive thicknesses range from 0.002" (0.051 mm) to 0.01" (0.254 mm)
- Pressure-sensitive adhesive orders are shipped with a roller, cleaner and application instructions. Roller is recommended when applying nameplates
- Adhesives matched to the surface for maximum adhesion or optional holes for mechanical fasteners
- Shelf life of 24 months when stored at 72 °F (22 °C) and 50% relative humidity
- Intensification required for Teflon® option

Key Features

- Dirt, grease or dried paint is easily removed
- Teflon® coating also provides protection against long-term exposure to weather, extreme heat or cold, UV rays and fluctuations in temperature
- Photographically reproduced black copy, logos and bar-codes ensure accurate and reliable reads
- Adhesives specially matched to surface for maximum adhesion or optional holes available for mechanical fasteners

Applications

- Asset Tracking
- Tool Tracking
- Work-in-Process
- Product Identification

Environmental Specifications

- Minimum Application Temperature +50 °F (10 °C)
- Temperature Range: -40 °F (-40 °C) and up to +500 °F continuous (260 °C) - adhesive dependent
- UV Resistance: Teflon® coating provides protection against long-term exposure to weather, extreme heat or cold, UV rays and fluctuations in temperature
- Chemical Resistance: Excellent resistance to strong acids and alkaline solutions, solvents, oils, combustible and flammable chemicals and a wide variety of cleaners. Enamel, lacquer, epoxy and powder coatings remove easily along with dirt, grease and other contaminants

Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the tags in the environment in which they will be used.

Paint Adhesion Tests	
Treatment	Observations
Lacquer	Coating covered uniformly and would not rub off with a rag. The coating was easily removed in one piece after the edge was loosened with a fingernail.
Enamel	The paint beaded when applied and was removed by rubbing with a dry shop rag. A reasonable amount of pressure must be applied in order to remove paint.
Epoxy	The paint beaded when applied and was removed by rubbing with a dry shop rag.

Barcode Readability Test Data	
Chemical	Result
Glass Cleaner with Ammonia	NE
DI Water	NE
Isopropyl Alcohol	NE
Bathroom Cleaner	NE
Acetone	NE
Brake Fluid	NE
Diesel Fuel	NE
Caustic Soda	NE
Nitric Acid	NE
Hydrochloric Acid	NE
Key: NE - No Effect	

*Results after immersion in the chemicals noted above for 48 hours in room temperature conditions

Abrasion Test Data
Test performed with Taber Abrader set at 500 gram per wheel, 1000 gram (35.3 oz.) total load with Calibrase CS-17 wheels. Resists abrasion up to 7000 revolutions before wear-through on the Teflon® coating or anodized surface occurs.

Destructive Test Data		
Image Intensified	Weatherometer, 20 years equivalent	Reduced overall readability after these thresholds

Temperature Test Data	
Max Temp. Exposure	500 °F (260 °C) continuous and 550 °F (288 °C) intermittent (without attachment adhesive)

Installation Instructions

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive seating.

Industry Compliance