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PRODUCT DATA SHEET

Engraved Phenolic Plastic Labels

DESCRIPTION

Engraved identification labels for industrial environments. Engineered specifically to be electrically non-conductive and insulative, while being highly durable, UV stable, chemical resistant, and harsh weather resistant, making them ideal for both indoor and outdoor applications.

USE

Identification labeling for electrical panels, equipment, safety and compliance signage, and valve and pipe marking, in both indoor and outdoor environments. Clean room compliant.

MATERIAL SPECIFICATIONS

Base Material: Micro-surfaced, impact modified acrylic.

Material Characteristics: Non-hazardous, electrically non-conductive, insulative, UV stable, halogen-free, PVC-free, Formaldehyde and Phenol free, clean room compliant and rated UL 94 HB. Materials are also engineered for prolonged life, as well as warranted for colorfastness for 2+ years.

Thickness: 2-Ply 0.062" (1.57 mm) or 3-Ply 0.125" (3.15 mm) standard

Finish: Matte

Colors: Wide range of color combinations for surface and core layers.

Engraving Layer: Multi-layer material facilitating clear and precise engraving.

ENVIRONMENTAL AND PERFORMANCE CHARACTERISTICS

Weather Resistance: Designed for extreme outdoor conditions, including UV exposure, humidity, and rain

Chemical Resistance: Resistant to most industrial chemicals, solvents, oils, and acids

Service Temperature Range: -40°F to 208°F (-40°C to 97°C)

Tensile Strength: 5500 psi

Flexural Strength: Load to stretch outer surface 5%: 10,300 psi

Electrical Arc Resistance: 10¹² Ohms/Sq. Meter

ENGRAVING DETAILS

Engraving Type: Laser engraved, resulting in high-contrast permanent marking by exposing the contrasting layer core.

Color Availability: Wide range of color combinations for surface (background) and core (text) layers:

2-Ply – Black background with white text, Brown background with white text, Dark Blue background with white text, Dark Green background with white text, Light Blue background with white text, Light Green background with white text, Metallic Gold background with black text, Metallic Silver background with black text, Orange background with white text, Red background with white text, White background with black text, and Yellow background with black text

3-Ply - Black background with white text, Dark Blue background with white text, Red background with white text, White background with black text, and Yellow background with black text

CUSTOMIZATION OPTIONS

Sizes: Fully customizable to meet specific application requirements

Shapes: Standard rectangles or custom shapes

Mounting Options: Screw holes or adhesive backing

MOUNTING METHODS

Holes: Option for 1-4 holes in various sizes.

Adhesive: Optional peel-and-stick permanent adhesive backing

Adhesive Properties

- Adhesive Type: Industrial-strength permanent adhesive (3M 300LSE)
 - Adhesive Temperature Range: 50°F to 100°F (10°C to 37°C)
 - Adhesive Service Temperature Range: -40°F to 300°F (-40°C to 148°C)
 - Adhesive Features:
 - High-bond strength on smooth, textured, and powder-coated surfaces.
 - Long-term adhesion for harsh environments
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Date: _____ **Job:** _____

Contractor: _____