

## Polyacrylic - 3M™ 7847

3M™ 7847 laser-etched polyacrylic label stock is excellent for barcode applications that require high-contrast images, reliable readability, durability and flexibility. It is highly resistance to thermal shock and temperature extremes, stands up to abrasion, grease and oil, and is virtually impervious to all but the most caustic solvents and chemicals. Polyacrylic is an economical two-layer acrylic film that is in the same composition family as Kevlar® and Lexan®, so it makes for an exceptionally robust asset tag. Halogen-free with strong adhesion to LSE plastics, 3M 7847 polyacrylic label stock material helps resist forgery and is virtually indestructible on many surfaces. Application is easy and quick – just peel and stick. No rivets or screws required.



EID 3GV83  
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PN GPDZSGL14

The two-layer construction consists of a black top layer bonded to the white base layer to form a strong homogeneous unit. A modified acrylic adhesive provides excellent grip, even on low energy surfaces such as polypropylene. Proven and MIL STD 130-compliant, polyacrylic label stock delivers outstanding long-term performance you can rely on in multiple marking applications.

### KEY ADVANTAGES

The cast modified polyacrylate facestock has a matte surface that can be marked with a CO2 or YaG laser, and is available in custom sizes and shapes. Here's what you get:

- > Long-term durability
- > Excellent abrasion, temperature, chemical and environmental resistance
- > High-resolution, high-contrast label images
- > Good printability and excellent barcode readability
- > Permanent adhesion to LSE plastics, oily metals, powder coatings and textured surfaces

### IDEAL FOR MULTIPLE APPLICATIONS

- > Durable goods marking
- > Asset labels
- > Under-hood labels
- > Security labels
- > Barcode labels
- > Information labels with 2-D symbologies
- > Process labeling in-plant

**MATERIAL SPECIFICATIONS**

Properties	
<b>Color</b>	Black with white print
<b>Facestock</b>	Top Layer: 0.4 mil matte black acrylate Base Layer: 2.0 mil matte white acrylate
<b>Face-side Adhesive Thickness</b>	1.2 mil
<b>Face-side Adhesive Type</b>	350 high holding acrylic
<b>Liner Thickness</b>	3.2 mil
<b>Liner Type</b>	Densified kraft
<b>Liner Weight</b>	55 #
<b>Operating Temperature</b>	- 40° to 392° Farenheit
<b>Moisture Resistance</b>	High
<b>Permanent Adhesion</b>	To: Meta, HSE plastic, LSE plastic, Powder coats
<b>Plasticizer Resistance</b>	Medium
<b>Print Method</b>	Laser Etch
<b>Product Form</b>	Roll
<b>Solvent Resistance</b>	High
<b>Minimum Application Temperature</b>	39° Farenheit
<b>Shelf Life</b>	If stored at room temperature conditions in cool, dry and sun-protected rooms, the product retains it performance and properties for up to two years from the date of manufacture.
<b>Adhesion</b>	<b>Performance/Bond Strength</b>
Stainless steel	108 oz/inch      30 N / inch
Aluminum	108 oz/inch      30 N / inch
Polypropylene	72 oz/inch      20 N / inch
Polyethylene	64 oz/inch      18 N / inch
Polycarbonate	90 oz/inch      25 N / inch
ABS	101 oz/inch      28 N / inch
PVC	108 oz/inch      30 N / inch
Measured according to DIN 306446, Part 1 (300 mm/mm at 180° angle, film width: 25.4 mm). Adhesive performance for each case can depend on the texture of the surface. The above adhesive values are average values. They are not appropriate for specifications.	

All technical information and recommendations are believed to be accurate but do not guarantee or warranty. Suitability is the responsibility of the user.

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