

18900 Panduit Drive Tinley Park, IL 60487

Customer Service: 800-777-3300

TDS: Effective Date: Revision: GMY2-STE 17Jul12

# **Tamper-Evident Silver Polyester Film**

This specification is intended to outline the physical properties of *PANDUIT*'s pressure sensitive tamper-evident silver polyester material and include the following part numbers and printable material identifiers:

Part Number Prefixes				
PEL*Y1C				

Printable Material Suffixes			
AAL			

### **PRODUCT SPECIFICATIONS:**

Description: Material is RoHS compliant (European Union directive 2002/95/EC).

Material is a top coated polyester film with a pressure sensitive

adhesive. This material is halogen free.

Print Methods: This material is recommended for laser printing.

Adhesive: Acrylic based, pressure sensitive permanent adhesive.

Standard Colors: Matte Silver

Thickness: 3.5 +/- 0.4 mils (substrate and adhesive)

Service Temperature Range: -40°F to 302°F (-40°C to 150°C). Tamper evident feature of this product

becomes permanently non-functional after application over 104°F (70°C)

temperature.

Minimum Application Temperature: 50°F (10°C)

Storage Conditions: Store at 70°F (21°C) and 50% Relative Humidity.

#### PROPERTIES: PERFORMANCE:

Peel Adhesion to Stainless Steel: Product shows tampering when removal is attempted by leaving a checkerboard

pattern on the application surface. (PSTC-101, 72 hour dwell)

Shear Adhesion: 2 hours minimum (PSTC-107, Procedure A)

Tensile Strength: MD 48 +/- 4.8 lbs./inch width (PSTC-131)

TD 74 +/- 7.4 lbs./inch width (PSTC-131)

Elongation: MD 80% +/- 15% (PSTC-131)

TD 75% +/- 15% (PSTC-131)

UV Resistance: \*3000 hours. Matte coating turns yellow. (ASTM G154)

Elevated Temperature Exposure: After 8 hours at 275°F (135°C) there was no deterioration of the substrate.

Tack: 400 - 900 g/cm<sup>2</sup> (ASTM D-2979-71)

<sup>\*3000</sup> hours equates to 5 years of assimilated outdoor UV exposure.



**Technical Data Sheet** 

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## CHEMICAL/SOLVENT RESISTANCE:

The testing was conducted at room temperature. Samples were printed on a laser printer. The printed samples were immersed in the specified reagents for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time. After the final immersion, samples were rubbed 10 times with a lint free gauze. The samples were visually observed for any loss in print legibility.

Chemical/Solvent	Visual Observation	
Distilled Water	No effect	
Mineral Spirits	No effect	
Toluene	Loss in print legibility	
Isopropyl Alcohol	No effect	
Methanol	No effect	
Acetone	Significant print smear	
Methyl Ethyl Ketone	Loss in print legibility	
1,1,1 Trichloroethane	Loss in print legibility	
Freon TF	No effect	
Super Agitene	No effect	
Jet A Fuel	No effect	
Arco Truslide 68	No effect	
SAE 30 Motor Oil	No effect	

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