

**Technical Data Sheet**

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

\*3000 hours equates to 5 years of assimilated outdoor UV exposure.

**Technical Data Sheet****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.

<b>Chemical/Solvent</b>	<b>Visual Observation</b>
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	Loss in print legibility
Jet A Fuel	Loss in print legibility
Arco Truslide 68	No effect
SAE 30 Motor Oil	No effect

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