

**Technical Data Sheet**

## Laser/Inkjet Printable Polyolefin Film

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s pressure sensitive laser and inkjet printable polyolefin material and include the following part numbers and printable material identifiers:

| Part Number Prefixes |          |  |
|----------------------|----------|--|
| JL*PO                | JLEFPS-* |  |
| LJL*PO-TL            | JLEFPD-* |  |
| PLL-*PO-*            | CPPLF-S  |  |
| EFPL-1               | JLCPL-*  |  |

| Printable Material Suffixes |  |  |
|-----------------------------|--|--|
| FJJ                         |  |  |
|                             |  |  |
|                             |  |  |
|                             |  |  |

**PRODUCT SPECIFICATIONS:**

|                                  |  |
|----------------------------------|--|
| Description:                     | Material is RoHS compliant (European Union directive 2002/95/EC).<br>Material is top coated to provide a laser/inkjet printable surface. |
| Print Methods:                   | This material is recommended for laser and inkjet printing.  |
| Adhesive:                        | Acrylic based, pressure sensitive permanent adhesive.  |
| Standard Colors:                 | White opaque matte   |
| Thickness:                       | 4.5 +/- 0.6 mils (substrate and adhesive)  |
| Service Temperature Range:       | -40°F to 180°F (-40°C to 82°C)   |
| Minimum Application Temperature: | -10°F to 90°F (-23°C to 32°C)  |
| Storage Conditions:              | Store at 70°F (21°C) and 50% Relative Humidity.  |

**PROPERTIES:**

Peel Adhesion to Stainless Steel:  
Shear Adhesion:  
Tensile Strength:  
  
UV Resistance:  
Elevated Temperature Exposure:

**PERFORMANCE:**

30 oz/in width minimum (PSTC-101, 15 min. dwell)  
2 hours minimum (PSTC-107, Procedure A)  
MD: minimum 7500 PSI (PSTC-131)  
TD: minimum 13000 PSI (PSTC-131)  
\*3000 hours no change observed (ASTM G154)  
After 8 hours at 100°F (37.8°C) there was no deterioration of the substrate

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

**Technical Data Sheet****CHEMICAL/SOLVENT RESISTANCE:**

Samples were laser and inkjet printed. These samples were laminated to flat steel panels. The test was conducted at room temperature after 24 hour dwell. The samples were then 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 fifth immersion, the samples were rubbed 10 times with a lint free gauze. Visual observations were noted for any adhesive bleed, print smear or loss of legibility.

| Chemical Reagent      | Visual Observation       |
|-----------------------|--------------------------|
| Distilled Water       | No effect                |
| Mineral Spirits       | Slight adhesive bleed    |
| Toluene               | Slight adhesive bleed    |
| Isopropyl alcohol     | Loss of print legibility |
| Methanol              | Loss of print legibility |
| Acetone               | No effect                |
| Methyl Ethyl Ketone   | No effect                |
| 1,1,1 Trichloroethane | No effect                |
| Freon TF              | No effect                |
| Super Agitene         | No effect                |
| Jet A Fuel            | No effect                |
| Arco Truslide 68      | No effect                |
| SAE 30 Motor Oil      | No effect                |
| 10% Nitric Acid       | No effect                |

PSTC: Pressure Sensitive Tape Council  
ASTM: American Society for Testing and Materials (U.S.A.)

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