

**Technical Data Sheet**

## Panduit PST-FO Tag

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s PST-FO tags and include the following part numbers and printable material identifiers:

| Part Number Prefixes |  |  |
|----------------------|--|--|
| PST-FO               |  |  |
| GPST-FO              |  |  |
| PST-FO-BLNK          |  |  |
|                      |  |  |

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

**PRODUCT SPECIFICATIONS:**

**Description:** Material is RoHS compliant (European Union directive 2002/95/EC). Material is a self-laminating tag. The self-laminating portion is clear polyester while the printable portion is vinyl. This is back laminated with clear polyester.

**Standard Colors:** White, yellow, red and green

**Thickness:** 20.0 +/- 2.0 mils

**Service Temperature Range:** Minus 50°F to 200°F (Minus 45.6°C to 93.3°C)

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

**PROPERTIES:****PERFORMANCE:**

**Pull Strength:** Instron 1000 lb. load cell (transducer) values 25 +/- 2.5 lbs.

**Elongation:** MD 80% (PSTC-131)

**UV Resistance:** \*3000 hours no change observed (ASTM G154)

**Cold Weather Resistance:** Minus 50F for 168 hours resulted in no change in materials. No delamination edge durling or loss of color/legibility was observed.

**Heat Resistance:** 200F for 168 hours resulted in acceptable condition of materials. No delamination or loss of legibility was observed. Slight curling of the edges and slight browning of the colored vinyl was observed.

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

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

All tests were conducted as per ASTM D-896-90. Test was conducted at room temperature. The samples were immersed in the specified chemical reagents for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time. Performance of the samples were determined visually by subjective observation of any change.

| Chemical Reagent       | Visual Observation           |                |
|------------------------|------------------------------|----------------|
|                        | Substrate / Adhesive         | Printed Legend |
| Ammonia(28%)           | No change                    | No change      |
| Caustic Soda(10%)      | No change                    | No change      |
| Caustic Soda(50%)      | No change                    | No change      |
| Detergent (Tide 50%)   | No change                    | No change      |
| Bleach (Chlorox)       | No change                    | No change      |
| ASTM #3 oil            | No change                    | No change      |
| Unleaded Gasoline      | No change                    | No change      |
| Spindle Oil(Sunex 139) | No change                    | No change      |
| WD 40 Oil              | No change                    | No change      |
| Hydraulic Fluid        | No change                    | No change      |
| SAE 30 Motor oil       | No change                    | No change      |
| Creosote               | No change                    | No change      |
| Hydrochloric acid(37%) | No change                    | No change      |
| Phosphoric acid(86%)   | No change                    | No change      |
| Sulfuric acid(10%)     | No change                    | No change      |
| Nitric acid (5%)       | Delamination of the material | No change      |
| Distilled water        | No change                    | No change      |
| Salt water             | No change                    | No change      |
| Methanol               | No change                    | No change      |
| Xylene                 | No change                    | No change      |
| Mineral Spirits        | No change                    | No change      |
| Hexane                 | No change                    | No change      |
| Methyl Ethyl Ketone    | Slight delamination          | No change      |
| 1,1,1 Trichloroethane  | No change                    | No change      |
| Freon TF               | No change                    | No change      |

**REFERENCES**

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

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