

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.

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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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