

Technical Data Sheet**Inkjet Printable Vinyl Film**

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s pressure sensitive high tack inkjet printable vinyl material and include the following printable material identifiers:

Printable Material Part Number		
C***X***WPI	T***X***WPI	

PRODUCT SPECIFICATIONS:

Description:	Material is a RoHS compliant (European Union directive 2011/65/EU). Material is a top coated vinyl film with a pressure sensitive permanent adhesive.
Print Methods:	This material is recommended for ink jet printing.
Adhesive:	Acrylic pressure sensitive high tack permanent adhesive.
Standard Colors:	White
Thickness:	8.0 +/- 0.8 mils (substrate and adhesive)
Recommended Inks:	Pigment based inkjet ink such as Epson DURABrite Ultra®
Service Temperature Range:	40°F to 170°F (4.4°C to 77°C)
Minimum Application Temperature:	40°F(4.4°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:**PERFORMANCE:**

Peel Adhesion to: Stainless Steel	75 oz./in (PSTC-101, 15 min dwell) 80 oz./in (PSTC-101, 24 hour dwell)
ABS:	80 oz./in (PSTC-101, 15 min dwell) 85 oz./in (PSTC-101, 24 hour dwell)
Powder coated surface	75 oz./in (PSTC-101, 15 min dwell) 80 oz./in (PSTC-101, 24 hour dwell)
Polypropylene	70 oz./in (PSTC-101, 15 min dwell) 75 oz./in (PSTC-101, 24 hour dwell)
PVC:	40 oz/in (PSTC-101, 15 min dwell) 50 oz/in (PSTC-101, 24 hour dwell)
Shear Adhesion:	3 hours minimum (PSTC-107, modified procedure A)

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Tensile Strength:	MD 20 +/- 2.0 lbs./inch width (PSTC-131) TD 18 +/- 1.8 lbs./inch width (PSTC-131)
Elongation:	MD 250% +/- 15% (PSTC-131) TD 300% +/- 15% (PSTC-131)
UV Resistance:	*3000 hours no change observed (ASTM G154)
Elevated Temperature Exposure:	After 8 hours at 185°F(85°C) there was no deterioration of the substrate
Long Term High Service Temperature:	30 days at 170°F (77°C). No visible change observed 30 days at 185°F (85°C). Slight discoloration observed.
Long Term Low Service Temperature:	30 days at 40°F (4.4°C). No visible change observed.
Humidity Resistance:	30 days at 100°F (38°C) and 95% RH. No visible change observed.
Abrasion Resistance:	Taber abraser, CS-10 wheels/250 gm. wt./500 cycles, no visible change observed (ASTM D4060).
Salt Water Resistance:	90 days in 10% salt water solution at 150°F. No visible change observed.

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

CHEMICAL/SOLVENT RESISTANCE:

Samples were printed with Epson DURABrite Ultra® inkjet ink and were conditioned 24 hours before testing. Testing was conducted at room temperature. The samples were immersed in the specified solvents for 5 immersions using the following cycle: a 10 minute immersion followed by a 30 minute recovery time. After the final immersion, the samples were removed from the test solvent and were rubbed 10 times with lint free gauze. Visual observations were noted for any smear or loss of legibility.

Chemical/Solvent	Visual Observation	
	Adhesive	Inkjet print after rub test
Distilled water	No effect	No effect
Mineral Spirits	No effect	No effect
Toluene	Material disintegrates	Material disintegrates
Isopropyl Alcohol	No effect	Loss of print legibility
Methanol	No effect	No effect
Hydraulic fluid fire resistant	No effect	No effect
Acetone	Material disintegrates	Material disintegrates
Methyl Ethyl Ketone	Material disintegrates	Material disintegrates
1,1,1-Trichloroethane	No effect	No effect
Freon TF	No effect	No effect
Super Agitene	No effect	No effect
Jet A Fuel	No effect	No effect
SAE 20 Motor oil	No effect	No effect
Skydrol	No effect	Loss of print legibility
Brake fluid	No effect	Loss of print legibility
Gasoline	No effect	No effect
Mil 5606 oil	No effect	No effect
10% Sodium Hydroxide	No effect	No effect
10% Sulfuric acid	No effect	No effect
10% Ammonia	No effect	No effect
3% Alconox	No effect	No effect
Simple Green	No effect	No effect
Diesel Fuel	No effect	No effect
Formula 409	No effect	No effect
Chlorox	No effect	No effect

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APPROVALS

UL Recognized: UL969

File number: MH 14979

CUL Recognized: C22.2 No 0.15-01

File number: MH 14979

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