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TDS: GMC4
Effective Date: 24APR18
Revision: 8

Technical Data Sheet

Thermal Transfer Printable Vinyl Coated Cloth Tape – GMC4

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

Part Number Prefixes		
TTC*C	PCMB-*	PCM-*
TW-*C	PSL-CBWL	PCMH-*
TC-*C	PDL-*	PCL-*
PCLCP*	PESC-*-*	PCWL-*
PARW125-*		

Printable Material Suffixes	
CBC	CBD
CBT	
CB6	

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is a coated vinyl cloth with a rubber –based pressure sensitive adhesive. This material is used in flat applications and in a wrap format for wire/cable marking.
Print Methods:	This material is preprinted and also recommended for thermal transfer printing.
Adhesive:	Repositionable rubber based, pressure sensitive high tack adhesive.
Standard Colors:	White
Thickness:	11.8 +/- 1.6 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 170°F (-40°C to 77°C)
Minimum Application Temperature:	60°F (16°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.
	For cassette products do not exceed 95°F.

PROPERTIES:	PERFORMANCE:
Peel Adhesion to Stainless Steel:	28 oz/in width (PSTC-101, 15 min. dwell)
Shear Adhesion:	3 hours (PSTC-107, modified procedure A)
Tensile Strength:	28 lbs./inch minimum (PSTC-131)
UV Resistance:	*3000 hours no change observed (ASTM G154)
Elevated Temperature Exposure:	After 8 hours at 150°F(65.5°C) there was no deterioration of the substrate

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

CHEMICAL/SOLVENT RESISTANCE:

Samples were thermal transfer printed with Panduit RMEH*BL hybrid and RMER*BL resin ribbons, pre-printed and dot-matrix printed with Panduit dot matrix ribbon. These samples were laminated to flat steel panels and also wrapped around a 1/12" OD wire. Test was conducted at room temperature after 24-hour dwell. 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. After the final immersion the flat samples were rubbed 10 times with a lint free gauze.

Chemical Reagent	Visual observation				
	Substrate/Adhesive	Thermal Transfer printed legend		Pre-Printed legend	Dot-Matrix printed legend
		Hybrid Ribbon	Resin Ribbon		
Distilled Water	No effect	No effect	No effect	No effect	No effect
Mineral Spirits	Slight adhesive bleed	No effect	No effect	No effect	No effect
ASTM#3 Oil	No effect	No effect	No effect	No effect	No effect
Isopropyl Alcohol	Significant adhesive bleed	Loss of print legibility	Loss of print legibility	Loss of print density	Loss of print density
Methanol	No effect	Loss of print legibility	Loss of print legibility	Loss of print legibility	Loss of print legibility
3% Alconox Detergent	No effect	No effect	No effect	No effect	No effect
10% Sodium Hydroxide Solution	No effect	Loss of print legibility	Loss of print legibility	Loss of print legibility	Loss of print legibility
10% Sulfuric Acid Solution	No effect	No effect	No effect	No effect	No effect
5% Sodium Chloride Solution	No effect	No effect	No effect	No effect	No effect
Freon TF	Significant adhesive bleed	No effect	No effect	No effect	No effect
Super Agitene	Slight adhesive bleed	Loss of print density	No effect	Loss of print legibility	Loss of print legibility
Jet A Fuel	Slight adhesive bleed	Loss of print density	No effect	No effect	No effect
Arco TruSlide 68	No effect	No effect	No effect	No effect	No effect
SAE 30 Motor Oil	No effect	No effect	No effect	No effect	No effect

APPROVALS

UL Recognized: UL 969	File Number: MH 14576 (PCL*, PCLCP*, PCM-*, PCMB-*, PCMH-*, PESC-*-*, PARW125-YEL) File Number: MH 14979 (TTC*C, TW-*C, TC-*C, PDL-*, CBC, CBD, CBT, CB6)
CUL Recognized: C22.2 No. 0.15-15	File Number: MH 14576 (PCL*, PCLCP*, PCM-*, PCMB-*, PCMH-*, PESC-*-*, PARW125-YEL)

PARW125-RED, PSL-CBWL and PCWL-* are not UL or CUL recognized.

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