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TDS: GMC6
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Technical Data Sheet

Thermal Transfer Printable Nylon Cloth Tape – GMC6

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

Part Number Prefixes		

Printable Material Suffixes	
C*C	
C*T	

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2011/65/EU). Material is a nylon cloth with a pressure sensitive adhesive. This material is used in flat applications and in a wrap format for wire/cable marking.
Print Methods:	This material is recommended for thermal transfer printing.
Adhesive:	Acrylic based, pressure sensitive adhesive
Standard Colors:	White, Yellow
Thickness:	6.2 +/- 0.7 mils (substrate and adhesive)
Service Temperature Range:	-65°F to 275°F (-54°C to 135°C)
Minimum Application Temperature:	50°F (10°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:	25 oz/in width minimum (PSTC-101, 20 min. dwell)
Shear Adhesion:	24 hours minimum (PSTC-107, modified procedure A)
Tensile Strength:	MD: 80 +/- 8.0 lbs./inch minimum (PSTC-131)
Elongation:	MD: 80% +/- 10% (PSTC-131)
UV Resistance:	*3000 hours no change observed (ASTM G154)
E levated 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:

Both white and yellow nylon cloth samples were printed with thermal transfer Panduit RMER4BL 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 White Nylon Cloth		Visual Observation Yellow Nylon Cloth	
	Substrate / Adhesive	Thermal Transfer Print	Substrate / Adhesive	Thermal Transfer Print
Distilled Water	No effect	No effect	No effect	No effect
Mineral Spirits	Slight adhesive bleed	Loss in print density	Slight adhesive bleed	No effect
ASTM #3 Oil	Slight adhesive bleed	No effect	Slight adhesive bleed	No effect
Isopropyl Alcohol	Slight adhesive bleed	Loss of print density	Slight adhesive bleed	Loss of print density
Methanol	Slight adhesive bleed	Loss of print density	Slight adhesive bleed	Loss of print density
3% Alconox Detergent	No effect	No effect	No effect	No effect
10% Sodium Hydroxide Solution	Slight adhesive bleed	Loss of print density	Slight adhesive bleed	Loss of print density
10% Sulfuric Acid Solution	No effect	No effect	No effect	No effect
5% Sodium Chloride Solution	No effect	No effect	No effect	No effect
Freon TF	Significant adhesive bleed	No effect	Significant adhesive bleed	No effect
Super Agitene	Significant adhesive bleed	No effect	Significant adhesive bleed	No effect
Jet-A Fuel	Significant adhesive bleed	No effect	Significant adhesive bleed	No effect
Arco TruSlide 68	No effect	No effect	No effect	No effect
SAE 30 Motor Oil	No effect	No effect	No effect	No effect