

**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.<br>For cassette products do not exceed 95°F.  |

**PROPERTIES:**

|                                   |
|-----------------------------------|
| Peel Adhesion to Stainless Steel: |
| Shear Adhesion:                   |
| Tensile Strength:                 |
| Elongation:                       |
| UV Resistance:                    |
| Elevated Temperature Exposure:    |

**PERFORMANCE:**

|  |
|--|
| 25 oz/in width minimum (PSTC-101, 20 min. dwell)                           |
| 24 hours minimum (PSTC-107, modified procedure A)                          |
| MD: 80 +/- 8.0 lbs./inch minimum (PSTC-131)                                |
| MD: 80% +/- 10% (PSTC-131)   |
| *3000 hours no change observed (ASTM G154)                                 |
| 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.

**Technical Data Sheet****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<br>White Nylon Cloth |                           | Visual Observation<br>Yellow Nylon Cloth |                           |
|-------------------------------|---|---------------------------|--|---------------------------|
|                               | Substrate / Adhesive                    | Thermal Transfer<br>Print | Substrate / Adhesive                     | Thermal Transfer<br>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                 |

**LIMITED WARRANTY**

All PANDUIT Identification Solution Products (except for Software programs) are warranted to be free from defects in material and workmanship at the time of sale but our obligation under this warranty is limited to replacement of the product proved to be defective within 6 months from the date of sale, or in the case of printers, within 90 days from the date of sale. This warranty is void if the products or printers are modified, altered or misused in any way. Use of PANDUIT printers with any product other than the specified PANDUIT products for which the printer was designed constitutes misuse. Before using, the user shall determine the suitability of the product for its intended use and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers of seller and manufacturer.

NEITHER PANDUIT NOR SELLER SHALL BE LIABLE FOR ANY OTHER INJURY, LOSS OR DAMAGE, WHETHER DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR THE INABILITY TO USE THE PRODUCT OR THE PRINTER.

THIS WARRANTY IS MADE IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PARTICULAR USE ARE SPECIFICALLY EXCLUDED.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide or use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.