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# HPK Panel Labels

## Technical Datasheet

TTDS-008 Revision 5 - July 2019

**HPK is a semi-rigid, heavy gauge Polypropylene film with a permanent adhesive, designed to permanently identify control panel components and racks, as well as general labelling applications that require a high performance heavy gauge material. They offer good abrasion resistance, and adhere to most smooth surfaces including bare and painted metal.**

HPK is resistant to common fluids, lubricants and solvents. Print performance and durability can only be guaranteed when printed using TE Connectivity printers, ribbons and software, as shown in TE Connectivity Printer Product Ribbon Matrix 411-121005.

HPK is available as part of a complete identification system. The system comprises specific printers, thermal transfer ribbons and WINTOTAL and Print Easy software.

# HPK PANEL LABELS

## Features

- Thermal transfer printable
- Permanent adhesive
- Resistant to common fluids, lubricants and solvents
- Good abrasion resistance

## Applications

- Electrical and electronic component labeling
- Industrial and Commercial applications

## Temperature Rating

- Service Temperature  
-40°C to +150°C ( -40°F to +302°F)
- Min. Application Temperature: -12°C (10°F)

## Design for Environment

- Does not contain any declarable or prohibited substances according to ROHS directive 2011/65/EU, incl. amendment 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH) as amended 15th January 2019.
- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

<http://www.te.com/usa-en/utilities/product-compliance.html>

## Shelf Life

1 year when following good commercial storage practice detailed below

## Storage

Product should be stored in the original packaging, with any plastic covers which were included during shipping. Store out of direct sunlight in a clean, dry, dust free, environment. Product should not be stored outside of the designed storage temperature, which is 20 to 25 °C (68°F to 77°F), 40 to 50 % RH.

## Typical Label Thickness

- Label (including adhesive): 0.114 mm / 0.0045 inch
- Liner: 0.081 mm / 0.0032 inch



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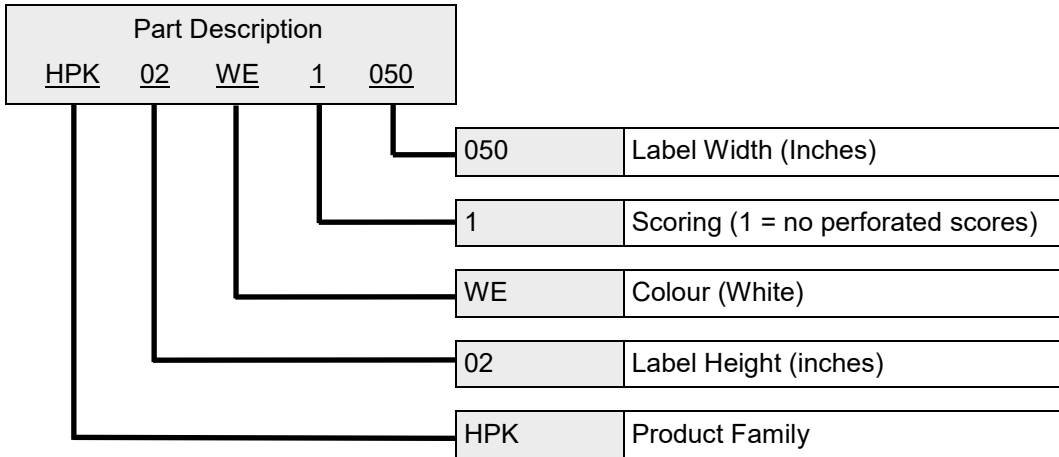
**Technical Performance**

	Requirement	Results	
<b>Print Permanence</b>			
Marking of Electrical Insulating Materials, SAE AS 5942	Legible after 50 rubs, 1kg weight with an eraser	Pass	
Resistance to Solvents, MIL STD 202G Method 215K	Legible after 30 wipes	Pass	
<b>Fluid Exposure</b>		<b>Adhesive</b>	<b>Printed legend</b>
<ul style="list-style-type: none"> <li>IPA Isopropyl Alcohol</li> <li>IRM 902</li> <li>MIL PRF 23699</li> <li>MIL-H-83282</li> <li>Diesel Fuel</li> <li>Kilfrost DF plus</li> <li>Tap water</li> <li>5% Salt solution</li> <li>Detergent (1% Teepol)</li> <li>Brake Fluid</li> <li>WD-40</li> </ul>	Labels to remain legible / SAE AS 5942 (TE doc 109-121012)  24 hours immersion at 23°C followed by 20 rubs with cloth, minimum print contrast 3*, legible  *Print contrast as defined in TE doc. 411-121002	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
<b>Adhesion to FTM1 (180°)</b>		<b>Typical Peel force (N/25mm (oz/in.))</b>	
<b>Test surface:</b>	FTM1 (180°)	<b>20min Dwell</b>	<b>72hr Dwell</b>
<ul style="list-style-type: none"> <li>Stainless steel</li> <li>Glass</li> <li>Aluminium</li> <li>Polypropylene</li> <li>Tufnol</li> </ul>		17 (62.1) 14 (52.0) 18 (65.0) 16 (60.0) 16 (60.0)	16 (57.8) 14 (51.9) 15 (56.5) 14 (53.0) 14 (53.0)
<b>IPA Wipe</b>	Labels to remain legible / SAE AS 5942 (TE doc. 109-121012) wiped with a cloth soaked in Iso-Propyl Alcohol, 20 times	Pass	
<b>Abrasion Resistance</b>	Labels to remain legible / 75 revolutions total, Record contrast after each 25 cycles. CS-10 wheel with 500 g load	Pass	

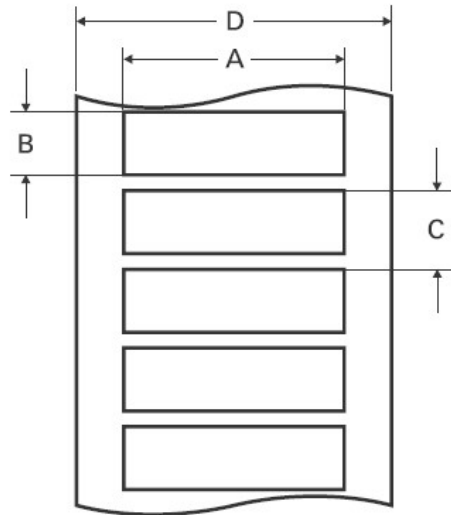
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Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit, form and function.





Ordering Information - HPK



Ordering Description	Quantity per Roll	Labels Across	Label Width A (mm) (inches)	Label Height B (mm) (inches)	Vertical Repeat C (mm) (inches)	Web Width D (mm) (inches)
HPK02WE1050	5.000	1	50.80 2.000	5.10 0.200	8.30 0.325	57.20 2.250
HPK04WE1050	4.000	1	50.80 2.000	10.20 0.400	13.30 0.525	57.20 2.250
HPK06WE1050	3.000	1	50.80 2.000	15.20 0.600	18.40 0.725	57.20 2.250
HPK08WE1050	2.500	1	50.80 2.000	20.30 0.800	23.50 0.925	57.20 2.250
HPK10WE1050	2.000	1	50.80 2.000	25.40 1.000	28.60 1.125	57.20 2.250



**Printer Information**

Print quality and print performance can only be guaranteed when specific TE printer and ribbons are used.

The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix'. This document can be found in 'Access Our Tools':

<https://www.te.com/usa-en/products/identification-labeling/printers-software-and-accessories/printer-ribbons.html>



**Software**

WINTOTAL software, available to download for a 14 day evaluation period from the Identification Printer Software page:

<http://www.te.com/usa-en/products/identification-labeling/printers-software/printing-software.html?tab=pgp-story>

Print Easy software also available

Contact a TE representative for further information



**[www.te.com/rail](http://www.te.com/rail)**

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