

CP - CLEAR POLYESTER LABEL

Technical Datasheet

TTDS-083 Revision 2 - April 2016

CP is a clear thermal transfer printable polyester film with a permanent acrylic adhesive and a glassine liner. It is ideal for use as an over-laminate to further protect printed labels from chemicals, solvents, abrasion, heat and moisture. Can be supplied in custom formats for thermal transfer printing to generate printed clear labels. TE Connectivity CP was designed for rating plates, nameplates, equipment labels, serial number plates and general labelling applications that require a high durability transparent label.

Print performance and durability can only be guaranteed when printed using TE Connectivity printers ribbons and software, as shown in TE Connectivity Printer Ribbon Matrix 411-121005.

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

CP CLEAR POLYESTER LABEL

Features

- Thermal transfer printable
- Ideal for general labeling applications
- Usable for over-lamination

Temperature Rating

- Operating Temperature Range
–40°C to 150°C (-40°F to 302°F)
- Minimum Application Temperature 10°C (50°F)

Specifications / Approvals

Military Specification Meets the requirements of MIL-AA-59485, test method MIL-P-38477A

Applications

- Rating plates
- Name plates
- Equipment labels
- Serial number plates
- General purpose label applications that require a high durability transparent label

Design for Environment

- Does not contain any declarable or prohibited substances from the UNIFE Railway Industry Substances List
- 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

2 years 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 -10°C (14°F) to +40°C (104°F).



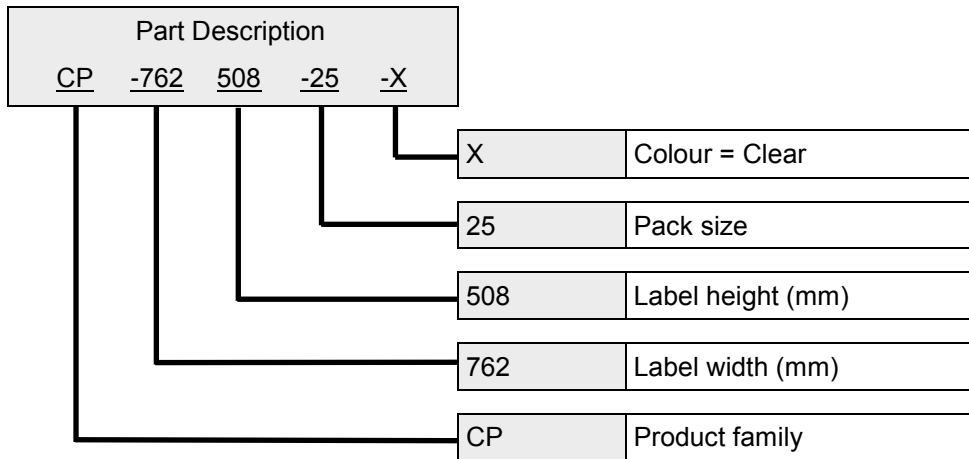
Technical Performance

	Requirement / Method	Result
Print Permanence		
Marking Adherence	SAE AS 5942, 20 rubs	Pass
Resistance to Solvents	TE test method 109-121012	Pass
Resistance to TE industrial fluids		
<ul style="list-style-type: none"> • Isopropyl alcohol • IRM 902 • MIL PRF 23699 • Skydrol LD4 • MIL-H-83282 • Diesel Fuel • Kilfrost DF plus • Tap water • 5% Salt solution • Detergent (1% Teepol) 	24 hours immersion at 23°C followed by mark adherence Requirement for all fluids legible minimum print contrast score C3*, legible. *Print contrast as defined in TE doc. 411-121002	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
Adhesion to substrates		
<ul style="list-style-type: none"> • Stainless steel • Glass • Aluminium • Polypropylene • Epoxy Painted Surface 	FTM 1 (180°) 72 hour dwell at 23°C+/- 2°C, 50% RH +/- 5% RH	Typical adhesion 19 N/25 mm (69.4 oz/in) Pass 19 N/25 mm (69.7 oz/in) Pass 13 N/25 mm (45.7 oz/in) Pass 12 N/25 mm (44.6 oz/in) Pass 21 N/25 mm (75.5 oz/in) Pass

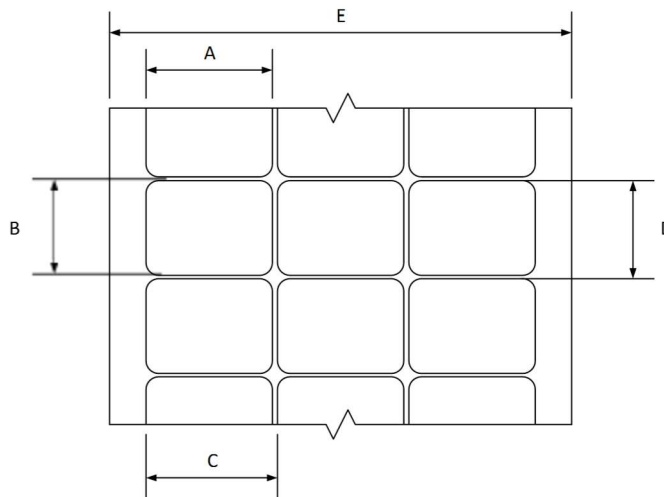
Typical Label Thickness Details

- Facestock: 0.05 mm / 0.0020 inch
- Adhesive: 0.022 mm / 0.0087 inch
- Liner: 0.056 mm / 0.0022 inch

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



Ordering Description	Pack Size	Labels Across	Label Width A (mm) (inches)	Label Height B (mm) (inches)	Horizontal Repeat C (mm) (inches)	Vertical repeat D (mm) (inches)	Web Width E (mm) (inches)
CP-165051-25-X	25.000	4	16.5 0.650	5.1 0.200	17.8 0.700	8.3 0.325	75.8 2.990
CP-191064-10-X	10.000	4	19.1 0.750	6.4 0.250	21.6 0.850	9.5 0.375	89.9 3.540
CP-229064-10-X	10.000	3	22.9 0.900	6.4 0.250	28.6 1.125	9.5 0.375	86.0 3.390
CP-254097-10-X	10.000	3	25.4 1.000	9.7 0.380	27.9 1.100	12.7 0.500	87.4 3.440
CP-254127-10-X	10.000	3	25.4 1.000	12.7 0.500	27.9 1.100	16.9 0.666	87.4 3.440
CP-381064-10-X	10.000	1	38.1 1.500	6.4 0.250	N/A N/A	9.5 0.375	44.5 1.750
CP-381127-5-X	5.000	2	38.1 1.500	12.7 0.500	44.2 1.738	15.9 0.625	88.2 3.472
CP-381191-5-X	5.000	2	38.1 1.500	19.1 0.750	43.2 1.700	22.2 0.875	87.6 3.450
CP-406254-1.5-X	1.500	2	40.6 1.600	25.4 1.000	55.9 2.200	38.1 1.500	102.9 4.050
CP-508127-5-X	5.000	1	50.8 2.000	12.7 0.500	N/A N/A	15.9 0.625	56.9 2.240
CP-508254-5-X	5.000	1	50.8 2.000	25.4 1.000	N/A N/A	28.6 1.125	57.2 2.250
CP-508318-2.5-X	2.500	1	50.8 2.000	31.8 1.250	N/A N/A	34.9 1.375	56.9 2.240
CP-699254-5-X	5.000	1	69.9 2.750	25.4 1.000	N/A N/A	28.6 1.125	76.2 3.000
CP-762254-5-X	5.000	1	76.2 3.000	25.4 1.000	N/A N/A	28.6 1.125	82.3 3.240
CP-762508-2.5-X	2.500	1	76.2 3.000	50.8 2.000	N/A N/A	54.0 2.125	82.3 3.240
CP-101635-2.5-X	2.500	1	101.6 4.000	63.5 2.500	N/A N/A	66.7 2.625	107.7 4.240

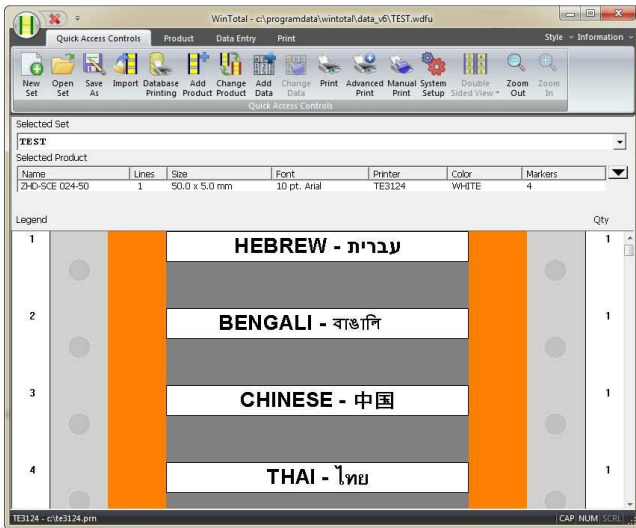


Printer Information

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':

<http://www.te.com/usa-en/utilities/access-product-tools->



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

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