

PRODUCT INFORMATION

RD-514-C POLYIMIDE LABELSTOCK FOR THERMAL TRANSFER PRINTING.

Description

RD-514-C is a high temperature thermal transfer printable labelstock. Designed to be printed with high performance resin based ribbons, RD-514-C will withstand temperatures up to 300°C and is resistant against many solvents and processing chemicals.

Applications

Electronic Industry: For underside of printed circuit boards and in surface mount applications.

Automotive Industry Aerospace Industry Metal processing General Industrial applications requiring high temperature resistance and/or chemical resistance.

Resistance against Chemicals & Solvents

Properties

- Thermal transfer printing
- Suitable for barcode printing
- Smudge resistant

RD-514-C will withstand high temperatures including direct contact with molten solder

Test Method: Labelstock is applied to stainless steel plate and immersed in medium.

Medium	Test Duration	Result
Water at 95°C	8 hours	No effect*
Transformer oil at 23°C	24 hours	No effect*
Diesel oil at 23°C	24 hours	No effect*
Motor oil (SAE 30) at 23°C	24 hours	No effect*
Hydraulic oil (G.M Dextron II) at 23°C	24 hours	No effect*
Hexane at 23°C	24 hours	No effect*
Heptane at 23°C	16 hours	No effect*
White Spirit at 23°C	1 hour	No effect*
Jet Fuel A1 (ASTM D1655) at 23°C	24 hours	No effect*
Avgas 100LL (ASTM D910) at 23°C	24 hours	No effect*
Anti-Freeze solution at 23°C ^{*1}	24 hours	No effect*
Detergent solution at 23°C ^{*2}	8 hours	No effect*

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UNAFFECTED/SURFACE IS INTACT

¹ MIXTURE OF ETHYLENE GLYCOL AND WATER (1:1)

^{*2} WATER WITH 3% COMMERCIAL DETERGENT/ SURFACTANT

Recommended	Recommended ribbons & printers		
Printer	Recommended ribbons		
Fargo Prodigy Plus (203 dots/inch, 4 inch/sec speed, high burn setting)	Armor AXR +7, AXR +8, AXR +9. Brady R4300, R4900, R6000, R6002. Sony TR-4070- EA, 4075, 6075. Ricoh B-110A, B-110C, B- 110CR, B-120E.		
Zebra 90 Xi (300 dot/inch, 2 inch/sec speed, high burn setting)	Armor AXR +7, AXR +8, AXR +9. Brady R4300, R4900, R6000, R6002. Sony TR-4070- EA, 4075, 6075. Ricoh B-110A, B-110C, B- 110CR, B-120E.		
Zebra 91 (300 dot/inch, 2 inch/sec speed, high burn setting)	Armor AXR +7, AXR +8, AXR +9. Brady R4300, R4900, R6000, R6002. Sony TR-4070- EA, 4075, 6075. Ricoh B-110A, B-110C, B- 110CR, B-120E.		

Note: Above recommendations are based on tests with ribbons as supplied by Manufacturer. No guarantee is given in respect of performance of own branded ribbons or re-formulated versions of the above ribbons.

For Printed Circuit Board labeling applications, we recommend that the user evaluates compatibility of ribbon ink with flux employed during soldering operations.

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and user assumes all risks and liability whatsoever in connection therewith.



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Additional Information

temperature: Room Temperature: 18°C (64°F)

recommended. High winding tensions should

Packaging: Store roll labelstock and finished

Handling: Avoid contact with label surface. Processing environment should be kept clean

Storage Conditions: Recommended storage conditions are 20°C (68°F) and 50% relative

Minimum recommended application

Printing method: Thermal Transfer. **Die cutting:** Rotary die-cutting is

be avoided.

humidity.

labels in plastic bags.

and free from dust and dirt.

PPI ADHESIVE PRODUCTS

RD-514-C

Technical Data	EN Value	ASTM Value
Supporting base:	Polyimide	film
Base thickness:	0.025 mm	1.0 Mil
+/- 0.003 mm	0.050 mm	2.0 Mil
Total thickness:	0.075 mm	3.0 Mil
+/- 0.005 mm	0.100 mm	4.0 Mil
Adhesive:	Acrylic	
Colour:	White	
Short term heat resistance:	Up to 300)°C
Interliner	Siliconised pape	er NS I-91
Liner Thickness:	0.075 mm +/- 0.006 mm	
Liner Area weight:	91 +/- 4 g/m ²	

Adhesive Strength : 180° Peel, 10 min Dwell		
Surface	EN Value	ASTM Value
Stainless Steel	2.5 N/ cm + 0.5 N/cm - 0.8 N/cm	22.5 OZ/INCH
Aluminium	3.0 N/cm	27.0 OZ/INCH
Solder resist coated Printed Circuit Board	1.5 N/ cm	13.5 OZ/INCH
Polyimide Film	2.0 N/ cm	18.0 OZ/INCH
Powder Coated Surface	2.5 N/ cm	22.5 OZ/INCH

Temperature Time		
300°C (572°F)	15 minutes	
250°C (482°F)	90 minutes	
$200^{\circ}C(302^{\circ}F)$	240 hours	

*Test according to ASTM D-1000/04, Section 46-53

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