

## **PRODUCT INFORMATION**

## **RD-514-B POLYIMIDE LABELSTOCK FOR THERMAL TRANSFER PRINTING**

#### Description

RD-514-B is a high temperature thermal transfer printable labelstock. Designed to be printed with high performance resin based ribbons, RD-514-B will withstand temperatures up to  $300^{\circ}$ 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.

#### Properties

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

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

#### **Resistance against Chemicals & Solvents**

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

Test Duration	Result
8 hours	No effect*
24 hours	No effect*
24 hours	No effect*
24 hours	No effect*
24 hours	No effect*
24 hours	No effect*
16 hours	No effect*
1 hour	No effect*
24 hours	No effect*
24 hours	No effect*
24 hours	No effect*
8 hours	No effect*
	Duration8 hours24 hours24 hours24 hours24 hours24 hours16 hours1 hour24 hours24 hours24 hours24 hours24 hours24 hours24 hours24 hours

MIXTURE OF ETHYLENE GLYCOL AND WATER (1:1)

WATER WITH 3% COMMERCIAL DETERGENT/

Recommende	d 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 4300, 4900. Sony 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 4300, 4900. Sony 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 4300, 4900. Sony 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.



## One tape - unlimited solutions

UNAFFECTED/SURFACE IS INTACT

SURFACTANT

see our web site www.ppiadhesiveproducts.com



# PPI ADHESIVE PRODUCTS PRODUCT INFORMATION

### **RD-514B**

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	0
Colour:	White	
Short term heat	Up to 300	)⁰C
resistance:	Op to 300	
Interliner	Siliconised pape	er NS I-91
Liner Thickness:	0.075 mm +/- 0	.006 mm
Liner Area weight:	91 +/- 4 g	$/m^2$
Delegge ferress	Fasson 6-11 cN	N/25 mm
Release force:	BDF (A7475)6-12	2 cN/25 mm

Adhesive Strength : 1	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

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

Additional Information	
<b>Minimum recommended application</b> <b>temperature</b> : Room Temperature: 18°C	
(64°F)	
<b>Printing method:</b> Thermal Transfer. <b>Die cutting:</b> Rotary die-cutting is	
recommended. High winding tensions should	
be avoided.	
Packaging : Store roll labelstock and	
finished labels in plastic bags.	
<b>Handling:</b> Avoid contact with label surface. Processing environment should be kept clean	
and free from dust and dirt.	
<b>Storage Conditions:</b> Recommended storage	
conditions are 20°C (68°F) and 50% relative humidity	
nunnuny	

Heat Resistance		
Temperature	Time	
300° C (572°F)	15 minutes	
250° C (482°F)	90 minutes	
200° C (392°F)	240 hours	

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.



## One tape - unlimited solutions

see our web site www.ppiadhesiveproducts.com