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## **PPI – PRODUCT INFORMATION**

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I-139A ENe doc 01/05/2006

### L-139A POLYIMIDE LABELSTOCK FOR THERMAL TRANSFER PRINTING

#### Description

L-139A is a high temperature thermal transfer printable labelstock. Designed to be printed with high performance resin based ribbons, L-139A will withstand temperatures up to 300°C and is resistant against many solvents and processing chemicals.

Dolná 62

Slovak Republic

974 01 Banská Bystrica Fax:

#### Applications

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

Automotive Industry

Airmotive Industry

Metal processing

General Industrial applications requiring high temperature resistance and/or chemical resistance.

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

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

Medium	Test	Result
	Duration	
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 <sup>*1</sup>	24 hours	No effect*
Detergent solution at 23°C <sup>*2</sup>	8 hours	No effect*

ADHESION TO TEST PLATE IS

UNAFFECTED/SURFACE IS INTACT

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

\*2 WATER WITH 3% COMMERCIAL DETERGENT/ SURFACTANT

Recommended ribbons & printers		
Printer	Recommended ribbons	
Fargo Prodigy Plus	Sony TR4090,	
(203 dots/inch,	Sigma E,	
4 inch/sec speed,	Sigma P,	
high burn setting)	Keymax Alpha,	
	Pelican T016,	
	Ricoh D105A	
Zebra 90 Xi	Keymax Alpha,	
(300 dot/inch,	Sigma P,	
2 inch/sec speed,	Sony TR4090,	
high burn setting)	Ricoh D105A	
Zebra 91	Keymax Alpha,	
(300 dot/inch,	Sigma P,	
2 inch/sec speed,	Sony TR4090,	
high burn setting)	Ricoh D105A	

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 reformulated versions of the above ribbons.

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

<b>Technical Data</b>	Din Value	Astm Value	Additional Information

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.

#### **Properties**

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

L-139A will withstand high temperatures including direct contact with molten solder



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Supporting base:	Polyimid	e film
Base thickness:	0.025mm	1.0 Mil
Total thickness:	0.050mm 0.065mm 0.090mm	2.0 Mil 2.5 Mil 3.5 Mil
Adhesive:	Acryl	
Colour:	White	
Short term heat resistance:	Up to 300°C	
Interliner	Siliconised paper I	NS I-91

Adhesive Strength : 180° Peel, 10 min Dwell		
Surface	Din Value	Astm Value
Stainless Steel	2.5 N/CM	22.5 OZ/INCH
Aluminium	3.0 N/CM	27 OZ/INCH
Solder resist coated Printed Circuit Board	1.5 N/CM	13.5 OZ/INCH
Polyimide Film	2.0 N/CM	18 OZ/INCH
Powder Coated Surface	2.5 N/CM	22.5 OZ/INCH

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

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Minimum recommended application

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

All statements, technical data and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product is proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, users shall determine the suitability of the product for their initial use, and users assume all risk and liability whatsoever in connection with them.

No statement or recommendation not contained herein shall have any force or effect unless embodied in a written agreement signed by authorised officers of seller and manufacturer.

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