



BB810

Fasson®
Polyimide I WH TC14
S8088 – BG50Wh

A low caliper semi-matt
white polyimide film for
labelling printed circuit
boards.

Key Features

- > 25 µm polyimide film with high opacity, semi-matt, white topcoat
- > Very good TT printability
- > Very high chemical resistance of TT print
- > UL recognised

Facestock

A durable polyimide film with a high-temperature resistance, high opacity, semi-matt white topcoat

Calliper: 46 µm ISO 534
Basis weight: 75 g/m² ISO 536

Adhesive

The S8088 a high-temperature resistance, permanent, acrylic adhesive.

Liner

BG50Wh: white, siliconized, bleached, super-calendered liner. Good die-cutting and matrix stripping. Suitable for roll-to-roll conversion.

Basis weight: 80 g/m² ISO 536
Caliper: 70 µm ISO 534

Laminate

Total caliper: 143 µm

Performance data

Type: Solvent Acrylate
Coat weight: 27 g/sqm
Initial Tack: 5,5 N/25 mm FTM 9 stainless steel
Peel Adhesion: 8 N/25 mm FTM 2 stainless steel 24 hrs.
Min. application temperature: +10 °C
Min. service temperature: -40 °C
Max. short term temperature: +260 °C

Adhesive Performance

The high temperature resistant acrylic adhesive S8088 is designed for labelling printed circuit boards. It withstands high temperatures and corrosive solvents.

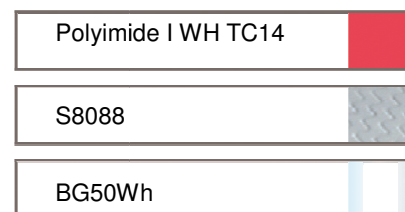
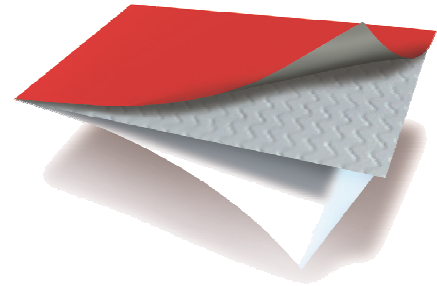
Applications and use

This polyimide label material is optimised for printing and specially formulated to withstand the high temperatures of the reflow process. It can be applied to all leaded and lead-free soldering processes in the market, but is not recommended for wave solder applications when applied to the bottom side of the PCB.

Depending on the circumstances, the material can withstand peak temperatures of up to +300 °C without color change or loss of adhesion. Application testing is highly recommended. The specially designed topcoat in combination with the appropriate thermal transfer ribbon features excellent scuff, scratch high temperature and solvent resistance.

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Conversion/printing

The high performance topcoat was specially designed for thermal transfer printing, especially suitable for precise barcodes. It is also suitable for conventional printing techniques if necessary. The choice of thermal transfer ribbons influences the overall print quality and environmental resistance. For best results resin ribbons should be used (for example DNP R300, R510, Armor AXR8 or Ricoh B110CR). Testing is highly recommended.

This product can be diecut and stripped at high speeds on most web-fed presses. Harden treated and sharp dies, preferably in flat-bed, are important to ensure smooth conversion.

Not recommended for automatic dispensing.

Shelf life

Two years under storage conditions as defined by FINAT.

Compliance

This product complies with both REACH and RoHS.

To the best of our knowing are SVHC's not part of the formulation and/or will not exceed the threshold limit of 0.1%.

UL recognition

This product meets the requirements as stated in UL 969 for indoor use.

The UL file number is MH27538.

For specific information on approved conditions, see appendix 2.

Appendix 1:

Performance Data

Note: the following technical data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:

FTM1: 180°, 300 mm/min in N/25mm.

Surface	dwelt time 20 minutes	dwelt time 24 hours
Epoxy Printed Circuit Board	4,5	7
Stainless steel	4,5	6,5

Short term high temperature resistance:

The thermal transfer printed label material has been tested on Epoxy Printed Circuit Board. A typical reflow lead and lead free solder profile with a maximum temperature peak of 235°C / 255°C has been processed. No visible changes could be noticed. The printing is still legible (tested with ribbons Armor AXR7+, AXR8, Ricoh B110CR, DNP R300, R510 and limak SP330).

Chemical Resistance

The performance results are based on simulation of a typical PCB cleaning process including a simulation of a solder process. Each cleaning process cycle was performed 3 times.

Cleaning agent	Cleaning agent base	Process	Wash time (min)	Temp (°C)	Rinse time (min)	Hot air drying 80°C (min)	Visual appearance
Atron® AC205 (15%) ¹	Water	spray-in-air	15	65	5	30	no change
Atron® AC207 (15%) ¹	Water	spray-in-air	15	65	5	30	no change
Vigon® A200 (30%) ¹	Water	spray-in-air	15	65	5	30	no change
Vigon® A201 (20%) ¹	Water	spray-in-air	15	65	5	30	no change
Vigon® A250 (30%) ¹	Water	spray-in-air	15	65	5	30	no change
Vigon® N600 (20%) ¹	Water	spray-in-air	15	65	5	30	no change
Vigon® US (30%) ¹	Water	ultrasonic	15	65	5	30	no change
Zestron® FA+ ¹	Solvent	ultrasonic	15	60	5	30	no change
Zestron® VD ¹	Solvent	ultrasonic	15	45	steam rinsed	vacuum dried	no change

¹ Zestron Europe, a Business Division of Dr. O.K. Wack Chemie GmbH

Thermal Transfer Printing:

Printability – Physical Resistance

Flat head printers (tests were performed with the printer Zebra XII 140):

Ribbon	Settings		Print Quality	ANSI Grade	Scratch resistance	Tape resistance
	speed	energy				
Armor AXR7+	3	30	++	A	++	+
Armor AXR8	3	25	++	A	++	+
DNP R300	6	25	++	A	++	+
DNP R510	3	30	++	A	++	+
Ricoh B110CR	3	25	++	A	++	+

ANSI (American National Standards Institute) Grade: information about barcode quality

A: excellent B: good C: acceptable D: readable with difficulty

++: excellent +: good o: acceptable -: poor

Chemical Resistance

The printed samples passed a simulation of a solder process, followed by typical PCB cleaning processes (3 cycles), as described on the previous page. Afterwards the evaluation took place.

	AXR7+	AXR8	R300	R510	B110CR
Atron® AC205 (15%) ¹	+	+	+	+	+
Atron® AC207 (15%) ¹	+	+	+	+	+
Vigon® A200 (30%) ¹	+	+	+	+	+
Vigon® A201 (20%) ¹	+	+	+	+	+
Vigon® A250 (30%) ¹	+	+	+	+	+
Vigon® N600 (20%) ¹	+	+	+	+	+
Vigon® US (30%) ¹	+	+	+	+	+
Zestron® FA+ ¹	+	+	+	+	+
Zestron® VD ¹	+	+	+	+	+

+: good (no change) o: acceptable (minor change, still readable) -: poor

¹ Zestron Europe, a Business Division of Dr. O.K. Wack Chemie GmbH

Appendix 2:**Compliance Data****UL – Underwriters Laboratories**

File Number: MH27538

This material is UL recognized for indoor use according to UL969 to high humidity or occasional exposure to water. Details are listed in the UL file MH27538.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)
Alkyd pain	-40	+150
Aluminum	-40	+150
Epoxyt	-40	+150
Galvanised steel	-40	+150
Stainless steel	-40	+150

The UL certification includes the printing with one or more of the following thermal transfer ribbons: Armor “AXR7+”, “AXR8”, “AXR EL”, DNP “R300”, “R510”, Ricoh “B110CR”.

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