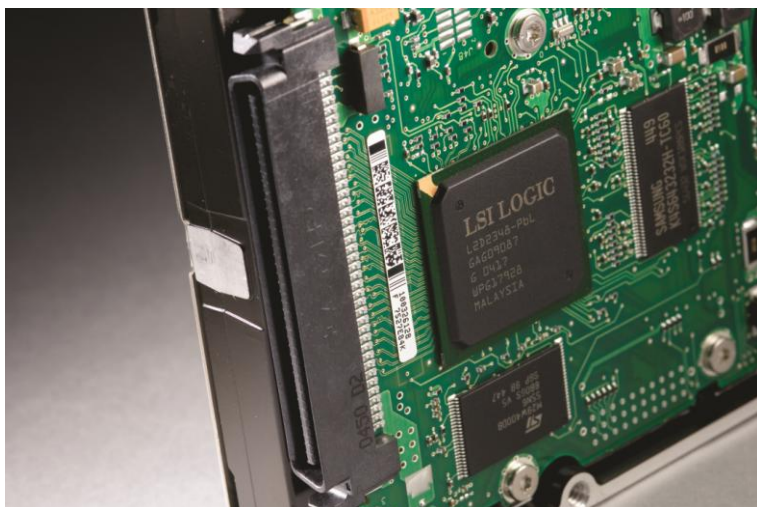


MZ2003W

Fasson®
50micron GLOSS
WHITE PI HTC/S8088S/
BG50# WH ni

A durable polyimide label with a high-heat resistant topcoat, designed for high-temperature resistance application.

Typical Applications



Key Features

- > High temperature resistance (up to 300C for short term)
- > ANSI Grade "A" barcode readability
- > High solvent resistance
- > Anti-yellowing properties
- > No edge-lifting
- > Excellent auto labeling

Facestock

A durable polyimide facestock with a high-temperature resistance, high opacity, gloss white topcoat.

Basis Weight: N/A

Caliper: 0.065 mm \pm 10% ISO 534

Adhesive

A solvent-based adhesive specially formulated to withstand high temperatures and corrosive solvents.

Liner

A super-calendared white glassine paper with excellent roll label converting properties.

Basis Weight: 80 g/m² \pm 10% ISO 536

Caliper: 0.070 mm \pm 10% ISO 534

Performance Data

Loop Tack (st,st):	FTM 9	8 N/25mm
20min. 90° Peel Adhesion (st,st):	FTM 2	6 N/25mm
24hours 90° Peel Adhesion (st,st):	FTM 2	8 N/25mm
Minimum Application Temperature:		10 ° C
Service Temperature Range:		-40~ +300° C

Features and Benefits

The product features excellent tear strength, heat resistance, dimensional stability and chemical resistance. The specially designed topcoat in combination with the appropriate thermal transfer ribbon features excellent scuff, scratch, UV, ultra-high temperature & solvent resistance. The label exhibits no yellowish, shrinking or warped after high temperature of one or two times of reflow soldering process.

Applications and Uses

AVERY MZ2003W is specially designed for high-temperature lead-free soldering application of PCB (printed circuit board), as well as for LED (light emitting diode), automotive, aerospace, medical and manufacturing applications where high-temperature and chemical resistances are critical. It is able to withstand surface mount circuit board processes on either the top or bottom side of the board, but testing is always recommended before production.

Conversion and Printing

The high performance topcoat was specially designed for thermal transfer printing, it also suitable for usual printing techniques if necessary. The choice of thermal transfer printer and ribbon influences the overall print quality and environmental resistant performance. Our material can be used with most of the high performance industrial grade thermal transfer printers and resin ribbons. Testing for specific printer and ribbon is mandatory. More details please see below **Appendix** or contact us.

This product can be die cut 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.

Both manual and automatic dispensing are recommended.

Regulatory and Agency Approvals

UL: MZ2003W is a UL recognized component, see UL file #MH20558 for specific details. UL information can be accessed online at UL.com.

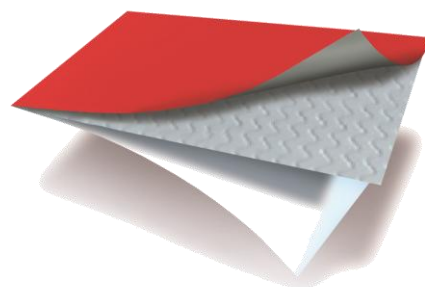
RoHS: It is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Halogen Test: It is a halogen-free material, test method with reference to EN14582:2007.

Shelf life

One year when stored at 23 \pm 2°C at 50 \pm 5% RH.

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Warranty

All statements, technical information and recommendations about AVERY DENNISON products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All AVERY DENNISON products are sold with the understanding that PURCHASER has independently determined the suitability of such products for its purposes. AVERY DENNISON products are warranted to be free of defects in material or workmanship for a period of one year from the date of shipment. Any product shown to the satisfaction of AVERY DENNISON within the time provided to be so defective shall be replaced without charge of AVERY DENNISON may issue credit in such amount as it seems reasonable however, in no event shall AVERY DENNISON be responsible for claims beyond the replacement value of the defective product or in any way

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Appendix

Performance Data

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

Properties	Initial 20minute dwell	24 Hours dwell at Room Temperature
Adhesion to Stainless Steel(FTM2)	6 N/25mm	8 N/25mm

Properties	Test Method	Average Results	
		USA Units	SI Units
Thickness	ASTM D1000		
Substrate		0.0026 inch	0.065 mm
Adhesive		0.0011 inch	0.027 mm
Liner		0.0027 inch	0.070 mm
Laminate total		0.0064 inch	0.162 mm
Thermal Characteristics	Operating Temp.	-40°C to +300°C (−40 °F to +572°F)	
	Application Temp.	10°C↑ (50 °F↑)	
	Short Term	90seconds at 300 °C (572 °F)	
Shelf Life	1 year at 23 ± 2°C and 50 ± 5% RH		
Printer recommendations	Zebra 105SL、 110		
Ribbon recommendations	Avery AX8, Ricoh B110CR, Armor AXR8, DNP R510、 R300, Sony TR4070, limak SP330, etc.		

References:

ASTM: American Society for Testing and Materials (U.S.A.)

SI: International Systems of Units. All SI units are mathematically derived from U.S. conventional units.