

Product Data Sheet

1mil Gloss White PI TC/S8088/BG50

Description

MZ2001 is durable gloss white top coated high temperature resistant polyimide label material with high performance acrylic solvent based permanent adhesive specifically designed for high ultimate adhesion, excellent resistance to PCB processing chemicals and withstanding high temperatures for extended periods of time, featuring excellent tear strength, heat resistance, dimensional stability and chemical resistance.

Thermal Transfer Printing

The high opacity gloss white top coating was specially designed for thermal transfer printing and offers excellent scuff, scratch, UV, high temperature, and solvent resistance. 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 ribbons. Testing for specific printer and ribbon is mandatory.

TYPICAL PERFORMANCE DATA (N/25mm)

Loop Tack -FTM 9: ↑12N/in
Peel Adhes. 90°-FTM 2 : ↑ 9N/in
Minimum Application Temperature: 10°C
Service Temperature Range:
-40°C~+250°C

Surface conditions

The top coating on this product provides superior imprinting characteristics and smudge resistance. Testing is recommended to ensure satisfactory toner anchorage and print results with specific printer and ribbon combination.

Application and Uses

This product is ideal for labeling printed circuit boards as well as for automotive, aerospace, medical, and manufacturing applications where high temperature and solvent resistance are critical. It is able to withstand surface mount circuit board processes on either the top or bottom side of the board. This product can also be used on the top side of the board in mixed processes and suitable for use on the bottom side when directly exposed to wave solder environment.

Shelf life

MZ2001 can be stored for at least 1 Year in an environment below 27°C and 60% RH. We are confident that our product will perform well beyond this time frame; however, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

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 at Room Temperature	72 Hours at Room Temperature
Stainless Steel	8N/in	10N/in	11N/in

Properties	Test Method	Average Results	
		USA Units	SI Units
Thickness	ASTM D1000		
Substrate		0.0018 inch	0.042 mm
Adhesive		0.0011 inch	0.027 mm
Liner		0.0026 inch	0.065 mm
Total		0.0055 inch	0.137 mm
Thermal Characteristics	Operating Temp. -40°C to +260°C (-40 °F to +500°F) Application Temp. above 10°C		
Shelf Life	1 year at 23 ± 2°C and 50 ± 5% RH		
Ribbon recommendations	Ricoh B110C, B110CR, B110A		

1 year at 23 ±2°C and 50±2% RH.

Short term (90 seconds): 572°F (300°C) moderate discoloration, but still functional

Medium term (2 hours): 338°F (170°C) no visible effect

Long term (1000 hours): 212°F (100°C) no visible effect

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.

Warranty



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