

BRADY L-2899-4C UHF SLIDES LABEL

TDS No. L-2899-4C Effective Date: 12/04/2021

Description:

UHF RFID label for use on medical slides.

Details:

Material Specifications:

Face Material	B-481 - Polyester
Adhesive	Permanent modified acrylic adhesive
Finishing	Matte White
Antenna	Aluminium
IC to antenna construction	Chip bonded to antenna using Anisotropic Conductive Film adhesive
Tag base material	PET

General Specifications:

Applications	Pharmaceutical and healthcare. The RFID label is designed for used on medical slides in the laboratory			
	environment.			
Print Technology	Thermal transfer print, including RFID encoding.			
Recommended Ribbon	Brady Series R6400			
Operating Temperature	-40 °C to 85 °C			
Regulatory/Agency	For information on the Weee-RoHS compliance status for a Brady Product go to one of the following			
Approvals	websites:			
	In Canada: www.bradycanada.ca/weee-rohs			
	In Europe: www.bradyeurope.com/rohs			
	In Japan: www.brady.co.jp/products/labelsuse/rohs			
	All other regions: www.bradyid.com/weee-rohs			

Electronic Specifications:

IC / Chip	Impinj Monza 4E
Operating Frequency	Global (860 – 960 MHz)
Supported Standard	ISO-18000-6C, EPC Class 1, Gen 2
EPC Memory	496 bit
User Memory	128 bit

Read Range: Up to 1 meter

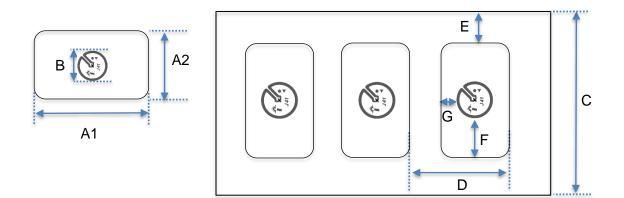
Label Dimensions:

Metric (mm)				
Width Length Thickness				
24.00	16.00	0.29		

Label Mass (including antenna and chip)

Label Mass (g)	
0.09	

Dimensions (mm)



		Length (mm)	Tolerance (mm)
A1	Tag Width	24.00	+/- 0.2
A2	Tag Length	16.00	+/- 0.2
В	Antenna Diameter	12.00	+/- 0.5
С	Web Width	38.10	+/- 0.5
D	Tag to Tag Pitch	20.00	+/- 1.5
E	Web edge to label	7.05	+/- 1.5
F	Antenna to side label	6.00	+/- 1.5
G	Antenna to top label	2.00	+/- 1.5

Delivery and Packaging Specifications

RFID labels per roll	500
Rolls in package	1
Winding	RFID labels out
Inspection and delivered tags	100% inspected, 500 good RFID labels per roll
Bad Tags Marked	Yes

Label Performance

<u>Special Features</u> L-2899-4C, when printed with the Brady Series R6400 ribbon, is designed for use in the slide staining process and other laboratory identification. L-2899-4C performs well in the commonly used H & E (hematoxilin and eosin) slide staining process.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	(0.0114 inch) 0.29 mm
	-Total (excluding liner)	
Adhesion to:	ASTM D 1000	
-Glass	20 minute dwell	68 N/100mm (62 oz/inch)
	24 hour dwell	90 N/100mm (82 oz/inch)
-Polypropylene	20 minute dwell	92 N/100mm (84 oz/inch)
	24 hour dwell	88 N/100mm (81 oz/inch)

PERFORMANCE PROPERTIES		ENVIRONMENTAL RESISTANCE		
Samples were printed with the Brady Series R6400 ribbon. Printed samples were laminated to glass				
microscope slides a	nd then exposed to the indicat	ed environmental conc	ditions.	
PERFORMANCE	TEST METHODS	EFFECT TO	EFFECT TO	EFFECT TO
PROPERTIES		LABEL	PRINT IMAGE	CHIP
High Service	30 days at temperatures	No visible effect	No visible effect	Readable
Temperature	60°C, 85°C, and 100°C			
Low Service	30 days at temperatures	No visible effect	No visible effect	Readable
Temperature	-40°C and -80°C			
Humidity	30 days at 37°C, 80%	No visible effect	No visible effect	Readable
Resistance	relative humidity			
Abrasion	Taber Abraser, CS-10	No visible effect	Print still legible	No effect to
Resistance	grinding wheels, 500		after 50 cycles	chip. Chip still
	g/arm, 50 cycles		- ,	readable after
	g,			150 cycles

PERFORMANCE PR	OPERTIES	CHEMICAL RESISTANCE			
Samples were printed with the Brady Series R6400 ribbon. Printed samples were laminated to glass microscope slides and allowed to dwell 24 hours prior to testing. Testing consisted of 5 cycles of 10-minute immersions in the specified chemical followed by 30-minute recovery periods. After the final immersion the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. Testing was conducted at room temperature.					
CHEMICAL REAGENT	EFFECT TO PRINT/TOPCOAT WITHOUT RUB	EFFECT TO PRINT/TOPCOAT WITH RUB	EFFECT TO ADHESIVE	EFFECT TO CHIPS	
Acetone	1	1	1	Readable	
Ethanol 96%	1	1	1	Readable	
Isopropanol	1	1	1	Readable	
Toluene	1	1	2	Readable	

Readable

Rating scale:

Xylene

1=no visible effect

2=slight smear or print removal or adhesive oozing, detectable but minimal

3=moderate smear or print removal or adhesive oozing

4=severe smear or print removal or adhesive oozing

5=complete smear, print removal or topcoat removal (delamination) or adhesive oozing

Shelf Life:

Shelf life is two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.) All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units.

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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