

BRADY L-2588-41B HF QUICK FLAG LABEL

TDS No. L-2588-41B

Effective Date: 09/02/2024

Description:

HF Quick Flag Label for general application is suitable for use indoor especially for wire and cable identification. The label is designed in a way to combine the HF technology, the specialized design with the easy-to-apply features on wire and cable flags, and it is printable almost anywhere with a Brady portable label printer.

Details:

Material Specifications:

Face Material	B-483A - White Polyester
Adhesive	Permanent adhesive
Finishing	Glossy White
Antenna	Aluminium
IC to antenna construction	Chip bonded to antenna using Anisotropic Conductive Film adhesive
Tag base material	PET

General Specifications:

Applications	HF Quick Flag Label for general applications in the retail, industry, data center and others. The label is made for the purpose of asset tracking, electrical labelling, component and equipment labelling, data and telecommunications labelling, inventory and inspection labelling.
Print Technology	Thermal transfer print, including RFID encoding.
Recommended Ribbon	Brady Series R6000 Halogen Free
Operating Temperature	-40 °C to 85 °C
Regulatory/Agency Approvals	For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites: In Canada: www.bradycanada.ca/weee-rohs In Europe: www.bradyeurope.com/rohs In Japan: www.bradycanada.ca/products/labelsuse/rohs All other regions: www.bradycanada.ca/weee-rohs

Electronic Specifications:

IC / Chip	NXP ICODE SLIX
Operating Frequency	13.56 MHz
Supported Standard	ISO/IEC 15693, NFC Forum type 5
User memory	1024 bits

Read Range:

PERFORMANCE PROPERTIES	TYPICAL RESULTS
HF Read range with mobile phone	up to 15mm
HF Read range with fixed reader	up to 20mm

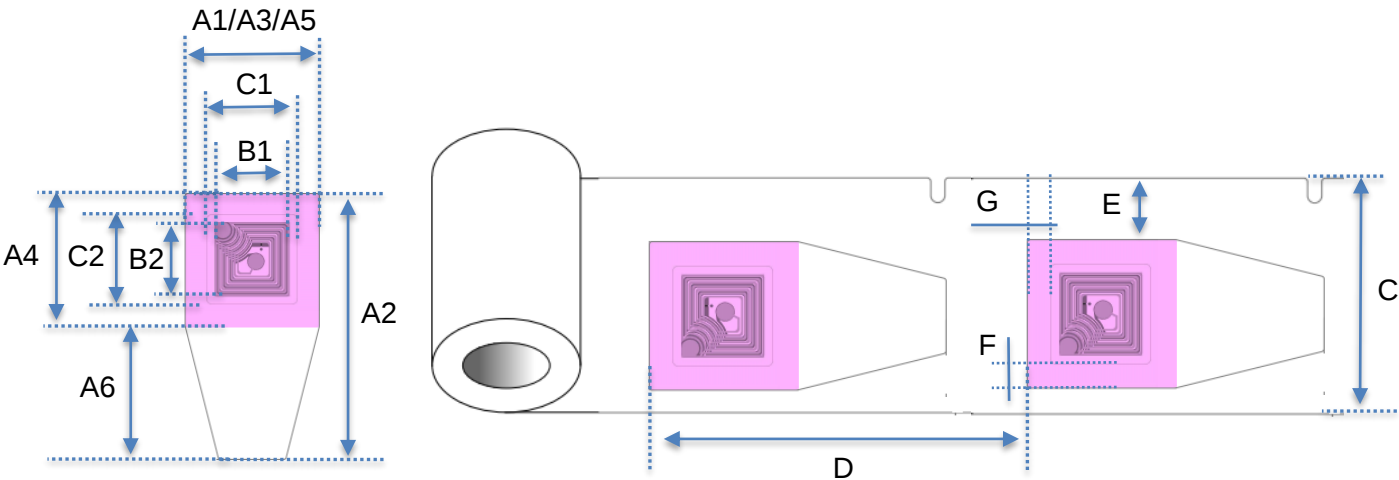
Label Dimensions:

Metric (mm)		
Width	Length	Thickness Total (with chip)
25.40	50.80	0.35

Label Mass (including antenna and chip)

Label Mass (g)
0.22

Dimensions (mm)



		Length (mm)	Tolerance (mm)
A1	Tag Width	25.40	+/- 0.2
A2	Tag Length	50.80	+/- 0.2
A3	Printable Area Width	25.40	+/- 0.2
A4	Printable Area Length	25.40	+/- 0.2
A5	Tag Tail Width	25.40	+/- 0.2
A6	Tag Tail Length	25.40	+/- 0.2
B1	Antenna Width	14.00	+/- 0.5
B2	Antenna Length	14.00	+/- 0.5
C1	Die-Cut Width	17.00	+/- 0.2
C2	Die-Cut Length	17.00	+/- 0.2
C	Web Width	33.35	+/- 0.3
D	Tag to Tag Pitch	60.96	+/- 1.5
E	Web edge to label (notch side)	6.00	+/- 0.3
F	Die-Cut to side label	4.20	+/- 1.5
G	Die-Cut to top label	4.20	+/- 1.5

Delivery and Packaging Specifications

RFID labels per roll	100
Core size	25 mm
Rolls in package	1
Winding	RFID labels out
Inspection and delivered tags	100% inspected, 100 good RFID labels per roll
Bad Tags Marked	Yes

Label Performance

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (excluding liner)	0.26 mm (0.010 inch)
Adhesion to: -Polypropylene	ASTM D 1000 20 minute dwell 24 hour dwell	153 N/100mm (140 oz/inch) 156 N/100mm (143 oz/inch)

Performance properties tested on samples printed with the Brady Series R6000 Halogen Free ribbons. Printed samples were adhered on cables with diameters 2mm and 4,4mm, and allowed to dwell 24 hours before exposure to the indicated environments. Abrasion resistance was tested flat.

PERFORMANCE PROPERTIES		ENVIRONMENTAL RESISTANCE		
PERFORMANCE PROPERTIES	TEST METHODS	EFFECT TO LABEL ADHESION	EFFECT TO PRINT IMAGE	EFFECT TO CHIP
High Service Temperature	30 days at temperatures 50°C	No visible effect	No visible effect	Readable
Low Service Temperature	30 days at temperatures -40°C	No visible effect	No visible effect	Readable
Humidity Resistance	30 days at 37°C, 95% relative humidity	No visible effect	No visible effect	Readable
Abrasion Resistance	Taber Abraser, CS10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306), 150 cycles	No visible effect	Print still legible after 100 cycles	No effect to chip. Chip still readable after 100 cycles

PERFORMANCE PROPERTIES		CHEMICAL RESISTANCE		
Samples were printed with the Brady Series R6000 Halogen Free ribbons. Samples were adhered on cables with diameters 2 mm and 4,4 mm and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 30 minutes immersions in the specified test fluid. After immersion, the samples were removed from the test fluid and the printed image rubbed 10 times with a cotton swab saturated with the test fluid. The rating scale below shows the effect to the quality of the print for each sample.				
CHEMICAL REAGENT	EFFECT TO PRINT/TOPCOAT WITHOUT RUB	EFFECT TO PRINT/TOPCOAT WITH RUB	EFFECT TO SUBSTRATE/ADHESIVE	EFFECT TO CHIP
Ethanol	1	1	Labels open and detach from the cable	Readable
Toluene	1	5	nve	Readable
Isopropyl Alcohol	1	1	Labels open and detach from the cable	Readable
DOT 4 Brake Fluid	1	2	Labels open and detach from the cable	Readable
Skydrol® 500B-4	1	2	Labels detach from the cable, but are still closed	Readable
Gasoline	1	1	Labels open and detach from the cable	Readable
Deionized water	1	1	nve	Readable

Rating Scale:

1= no visible effect

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

3= moderate smear or print removal (print still legible)

4= severe smear or print removal (print illegible or just barely legible)

5= complete print and/or topcoat removal

NP= print removed prior to rub

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.

References:

Skydrol® is a registered trademark of the Monsanto Company

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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