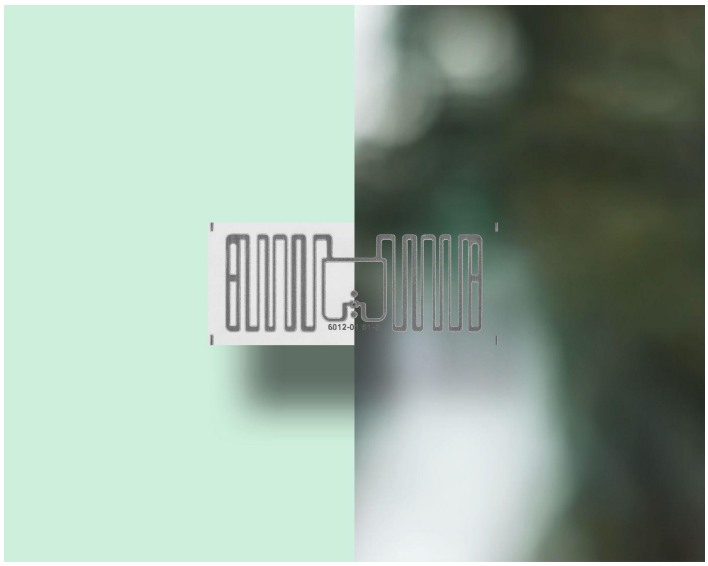
AD Miniweb M830 ETSI Pure™



Overview

Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach
Antenna Dimensions	42 x 16 mm / 1.65 x 0.63 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2
Industry Segments	General Retail Apparel Logistics
Applications	Brand Protection Supply Chain Management Home Essentials
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Compact, plastic free RFID inlay for sustainable item-level tagging

AD Miniweb M830 ETSI Pure inlays are designed for a broad range of applications, including inventory and logistics, electronics, sporting goods, home essentials, and general merchandise. The popular Apparel design is an excellent choice for retailers looking to tag diverse merchandise, as it provides consistent high read rates with a small label footprint. In addition, these inlays are particularly effective on materials such as glass and plastic. AD Miniweb M830 ETSI Pure is available in both dry and wet inlay formats as well as pressure-sensitive label.

Sustainability - 100% Plastic Free
Pure inlays are produced via innovative antenna manufacturing technology where aluminium antenna is made directly on a paper carrier, making the products 100% plastic free, and according to an LCA (Life Cycle Analysis) study by an independent institute, provide typically 70-90% savings in carbon footprint compared to traditional etching method. The manufacturing process also enables recycling excess materials and reducing the total amount of materials while maintaining the overall performance of the product.

The impact of the Pure paper-based inlays and tags in cardboard recycling has been verified by a third-party laboratory in the EU against Cepi Recyclability Test Method Version 3 (Part I: Recycling mill with conventional process and PTS-RH 021:97/2012. In the US, the hang tag construction is certified by Western Michigan University against SBS-E Part I (repulpability) and Part II (recyclability). How2Recycle® has “pre-qualified*” the RFID construction when applied to a paper hang tag and determined that the structure is eligible for a widely recyclable label.

Quality
Like all RFID products from Avery Dennison, AD Miniweb M830 ETSI Pure inlays are manufactured according to the industry’s highest quality standards, as confirmed by the RFID Lab at Auburn University. The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

***How2Recycle:** "Additional components, product application, or other attributes may change the final recyclability of the package. Must be a How2Recycle member and submit a label request to use the label on pack".

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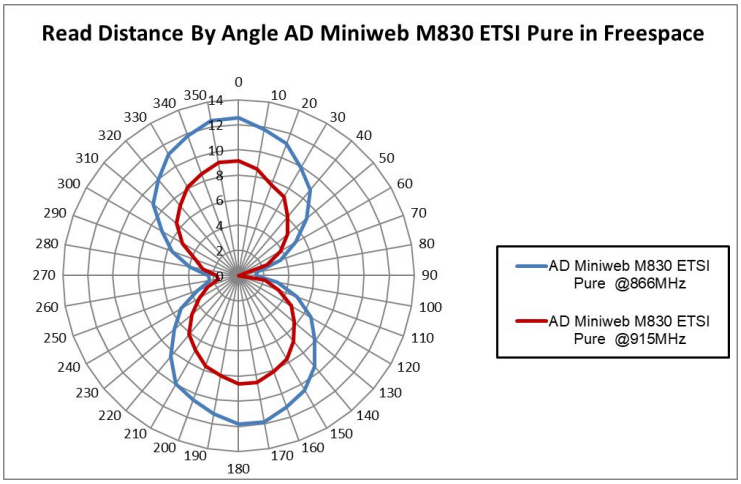
Technical features

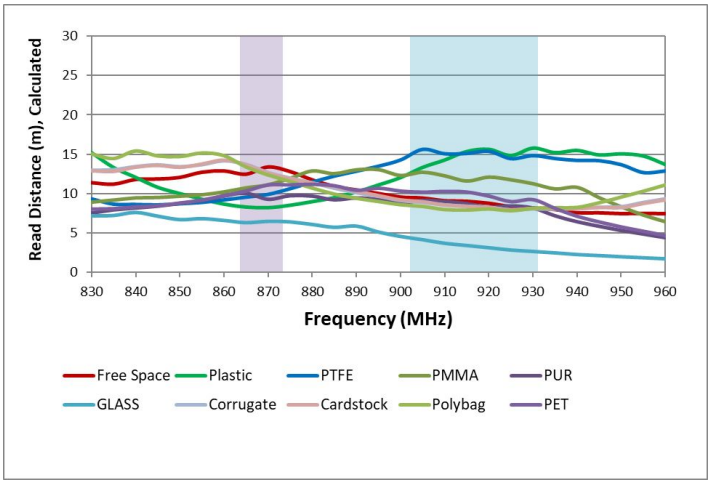
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach			
EPC and User Memory	96-bit and 0-bit			
TID Memory	96-bit / 48-bit unique serial number			
Product Code	IL-611677	IL-611667	IL-611665	IL-612795
Delivery Format	Dry inlay	Wet inlay	Label	Label
Die-Cut Dimensions	-	44 x 18 mm / 1.732 x 0.709 in	44 x 18 mm / 1.732 x 0.709 in	44 x 18 mm / 1.732 x 0.709 in
Die-Cut Corner Radius	-	1 mm / 0.039 in	1 mm / 0.039 in	1 mm / 0.039 in
Inlay Substrate	Paper 64	Paper 64	Paper 64	Paper 64
Face Sheet	-	-	Mid-gloss paper	Mid-gloss paper
Adhesive	-	RA-5	RA-5	RA-5
Total Thickness (over chip and release liner)	6.89 - 8.39 mils / 175 - 213 microns	9.53 - 11.65 mils / 242 - 296 microns	12.01 - 14.69 mils / 305 - 373 microns	12.01 - 14.69 mils / 305 - 373 microns
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in	22.225 mm / 0.875 in
Web Width	48 mm / 1.89 in	48 mm / 1.89 in	48 mm / 1.89 in	48 mm / 1.89 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel	20,000 pcs/reel	5,000 pcs/reel	5,000 pcs/reel
Size of Roll	MAX OD: 8.2”	MAX OD: 11.5”	MAX OD: 8.2”	MAX OD: 8”
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F			
On-Metal	Non metal			
ARC Certificates	ARC Specification Guide			

*Other product codes available upon request.

Orientation sensitivity



Read range



All graphs are indicative: performance in real life applications may vary.

Sustainability features

Plastic Free	100% PET, PP, PE Free
Recyclability	The product is recyclable in the region where it is sold. Recyclability is subject to regional and country specific standards.
Paper & Cardboard	EU Paper recyclability: Paper and Board - Recyclability Laboratory test method, part 1 recycling mill with conventional process (version 3 Feb 2025) (CEPI), PTS RH021:97/2012
	US Paper Recyclability: SBS-E Part I (Repulpability) and Part II (Recyclability)
	Certified by Western Michigan University (WMU) for RFID paper cardboard incl. Hangtags and flexible paper packaging
	How2Recycle® "pre-qualification" for RFID construction when applied to a paper hangtag and flexible paper packaging
Responsible Sourcing	100% Paper based raw materials come from responsible sources

For more information, please visit the Avery Dennison sustainability page.

Plastic Free

Recyclable

Responsible Sourcing

Find more label solutions at
rfid.averydennison.com

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