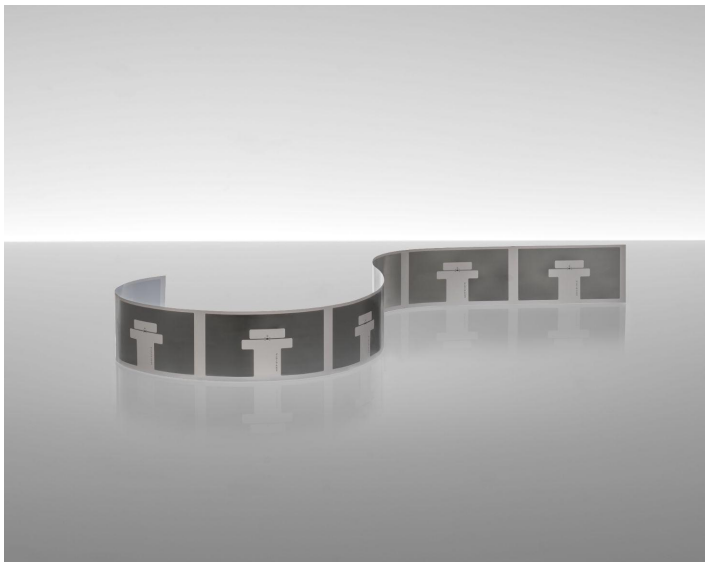
AD Grip NEL M830



Overview

Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach (DCA)
Antenna Dimensions	40 x 80 mm / 1.58 x 3.15 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	Automotive
Applications	Tire tagging
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Next-Generation Tire Inlay Optimized for Tread Labeling

AD Grip NEL M830 is Avery Dennison's next-generation UHF tire inlay, engineered to address key market limitations of previous AD Grip designs. Featuring a Narrow Edge Leading (NEL), AD Grip NEL M830 is optimized for placement under standard 3-inch tread labels, while delivering reliable read performance across multiple tire types.

Designed to meet ARC Spec T , AD Grip NEL M830 closes a critical competitive gap by providing a high-performance NEL solution that supports tire stacking and related workflows.

Key Features:

Optimized for 3" Tread Labels, NEL Construction for Improved Readability, Enhanced Multi-Tire Performance

Impinj M830 Equipped:
128-bit EPC memory
96-bit unique factory locked TID number
48-bit unique serial number factory-encoded into TID

Like all RFID products from Avery Dennison, AD Grip NEL M830 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.

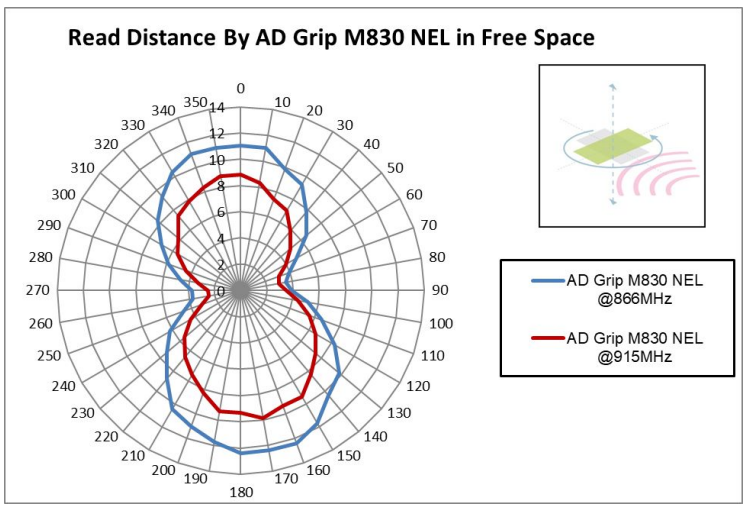
AVERY DENNISON

Technical features

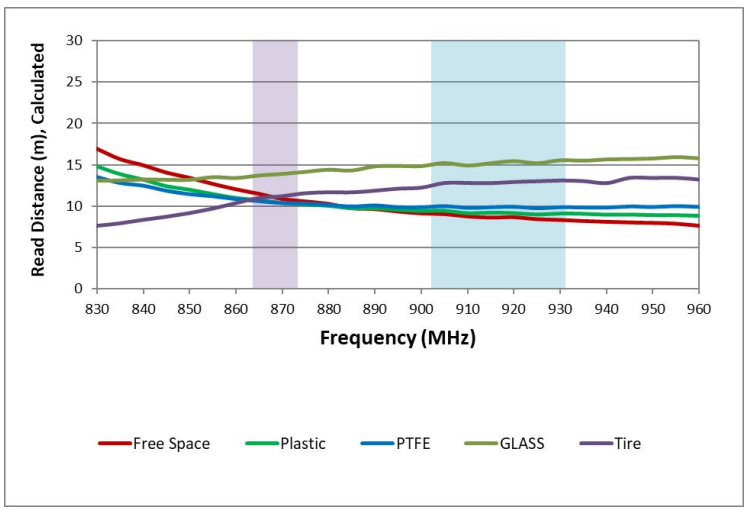
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach (DCA)	
EPC and User Memory	128-bit EPC and 0-bit User Memory	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-614545	IL-614546
Delivery Format	Dry inlay	Wet inlay
Die-Cut Dimensions	-	43 x 83 mm / 1.69 x 3.27 in
Die-Cut Corner Radius	-	3 mm / 0.12
Inlay Substrate	PET White	PET White
Face Sheet	-	-
Adhesive	-	ADH-100005
Standard Pitch	87.63 mm / 3.45 in	87.63 mm / 3.45 in
Web Width	45 mm / 1.77 in	45 mm / 1.77 in
Core Size	76 mm / 3 in	76 mm / 3 in
Size of Roll	Max OD 15.5"	Max OD 12"
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.

Functional Adhesive Group and Description

ADH-100005	General purpose permanent, acrylic based adhesive. Good adhesion to all generally used substrates such as paper, board and plastics

Find more label solutions at
rfid.averydennison.com

#MakingPossible

© 2026 Avery Dennison Corporation. All rights reserved. The "Making Possible" tagline, Avery Dennison and all other Avery Dennison brands, product names and codes are trademarks of Avery Dennison Corporation. All other brands or product names are trademarks of their respective owners. Fortune 500® is a trademark of Time, Inc. Branding and other information on any samples depicted are fictitious. Any resemblance to actual names is purely coincidental.