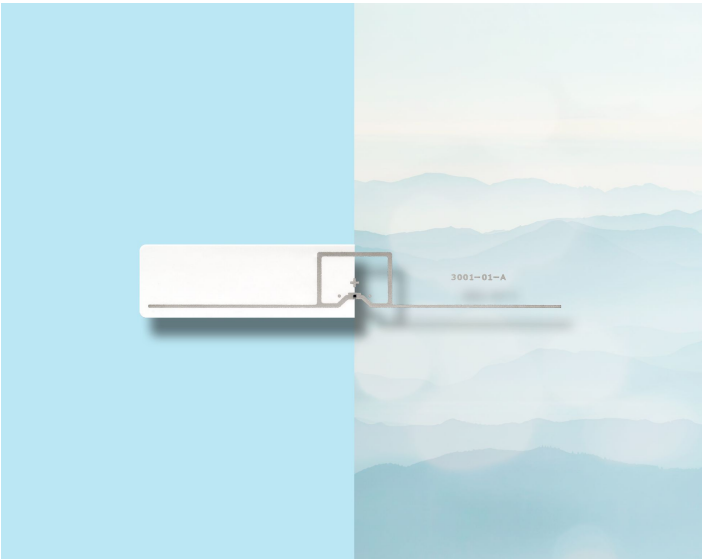


AD Line U9XE IML



RFID In-Mold Label (IML) – A Thin and Flexible Solution for Complex Industrial Applications



AD Line U9XE IML is a high-performance RFID inlay designed for integration into plastic items through the injection molding process, offering a versatile and sustainable solution for a wide range of industrial applications. Built to endure the demands of harsh environments, the label delivers long-lasting performance and supports circular economy goals by enabling the reuse and serialization of plastic assets. With its thin, flexible, and optimized design, the AD Line U9XE IML is compatible with injection-moldable materials such as Polypropylene (PP) and performs reliably across a wide temperature range while maintaining efficient cycle times.

This RFID inlay is ideal for applications involving reusable containers like plastic pallets, plant trays, shipping bins, and waste containers, as well as tools, equipment, and plastic components—both finished and semi-finished. It supports a range of critical use cases including supply chain management, asset tracking, and item-level identification. By enabling digital traceability, it ensures visibility from production to distribution and even waste collection. The label also facilitates maintenance scheduling and enables each item to carry a unique digital ID, supporting initiatives like Digital Product Passport (DPP) and lifetime product identification.

Engineered for durability, the AD Line U9XE IML provides robust performance with a typical post-molding read range of 5–6 meters, making it suitable for high-value assets and returnable transport items.

Overview

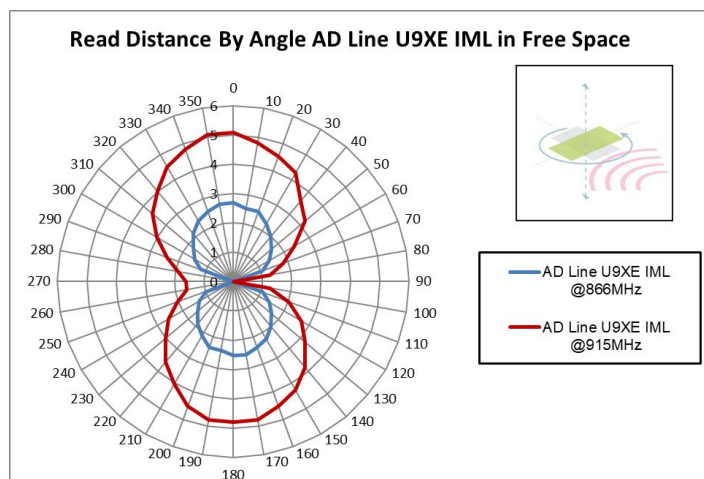
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	NXP UCODE 9xe / Direct Chip Attach
Antenna Dimensions	70 x 9.4 mm / 2.76 x 0.37 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2 Environmental Testing: IEC 60068-2-67 Temperature Cycling: JESD22-A104-B
Industry Segments	Industry Supply chain Logistics Automotive
Applications	Supply Chain Management Reusable Containers Asset & Item Tracking
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features

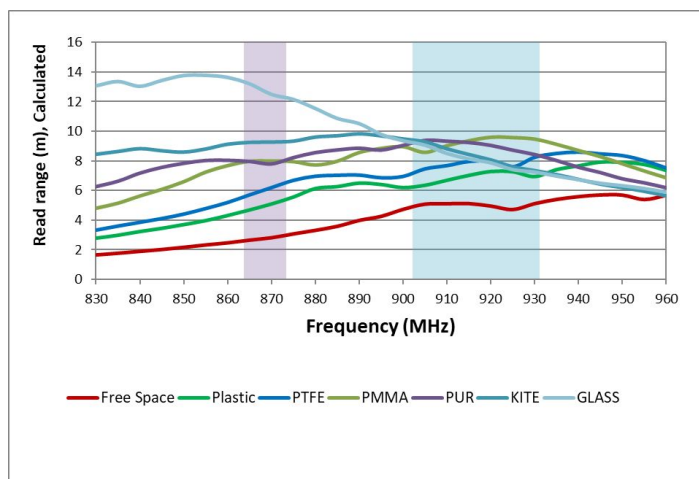
Chip / Chip Attachment Technology	NXP UCODE 9xe / Direct chip attach (DCA)	
EPC and User Memory	128-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-613618	IL-613619
Delivery Format	Dry inlay Continuous	Dry inlay Singulated on PET liner
Die-Cut Dimensions	NA	NA
Die-Cut Radius	NA	NA
Inlay Substrate	White PP	White PP
Face Sheet	NA	NA
Adhesive	NA	NA
Total Thickness (over chip and release liner)	7.48 mils / 190 microns	9.45 mils / 240 microns
Standard Pitch	28 mm / 1.10 in	28 mm / 1.10 in
Web Width	76 mm / 3 in	76 mm / 3 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel	5,000 pcs/reel
Size of Roll	MAX OD: less than 10"	MAX OD: less than 10"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	NA	
ARC Certificates	NA	

*Other product codes available upon request.

Orientation sensitivity



Read range




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


Sustainability features

Durability / Circularity	Enable reuse leading to reduction of full environmental impact, impacting the supply chain overall Scope 3 GHG (Greenhouse Gas) emissions.
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For more information, please visit the [Avery Dennison sustainability page](#).




Plastic Free




Recyclable




Compostable




Durable




Reusable



Material Reduction



Recycled Content



Responsible Sourcing

Find more label solutions at
rfid.averydennison.com



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