

AD Heat Seal LoG

Product characteristics

Level of Integration

Fully

Process of Integration

Heat seal

Inventory Management

Fully

Self Check-Out Functionality

Fully

Support Use-Cases beyond POS

Fully

Printing

Thermal

Encoding

Standard

Washable / Durable

Yes - Intended for 100 Home Wash / Dry Cycles

Softness / touch & feel

Flexible

Sustainability

Circularity

Segments

Apparel and Retail
Food
Beauty
Automotive
Healthcare
Logistics
Team Sports

Frequency Band

UHF 860 - 960 MHz or
NFC 13.56 MHz

International Standards

ISO/IEC 18000-63 Type C (UHF) or
ISO 14443A (NFC)

RoHS

EU Directive 2011/65/EC and
Directive (EU) 2015/863

REACH

Regulation (EC) No. 1907/2006



Permanent RFID solution: for inventory management and brand experience applications

AD Heat Seal LoG* (Life of Garment) is a durable, flexible and washable RFID solution that can be permanently embedded or applied to fabric substrates such as woven patches. Unlike standard hangtags or care labels that are often removed, this solution is integral to the garment and maintains its functionality in end-to-end applications i.e. from factory to end of life. Applied using a heat-seal adhesive, the AD Heat Seal LoG* is tested to withstand over 100 home wash/dry cycles, dry cleaning, and some industrial wash applications. The AD Heat Seal LoG* is currently available with either UHF or NFC RFID inlay.

General Retail Applications (UHF RFID):

- Supply chain & omnichannel transparency and optimization
- Inventory accuracy
- Loss prevention
- Self checkout and easy & quick return handling (no re-tagging)
- Circulation

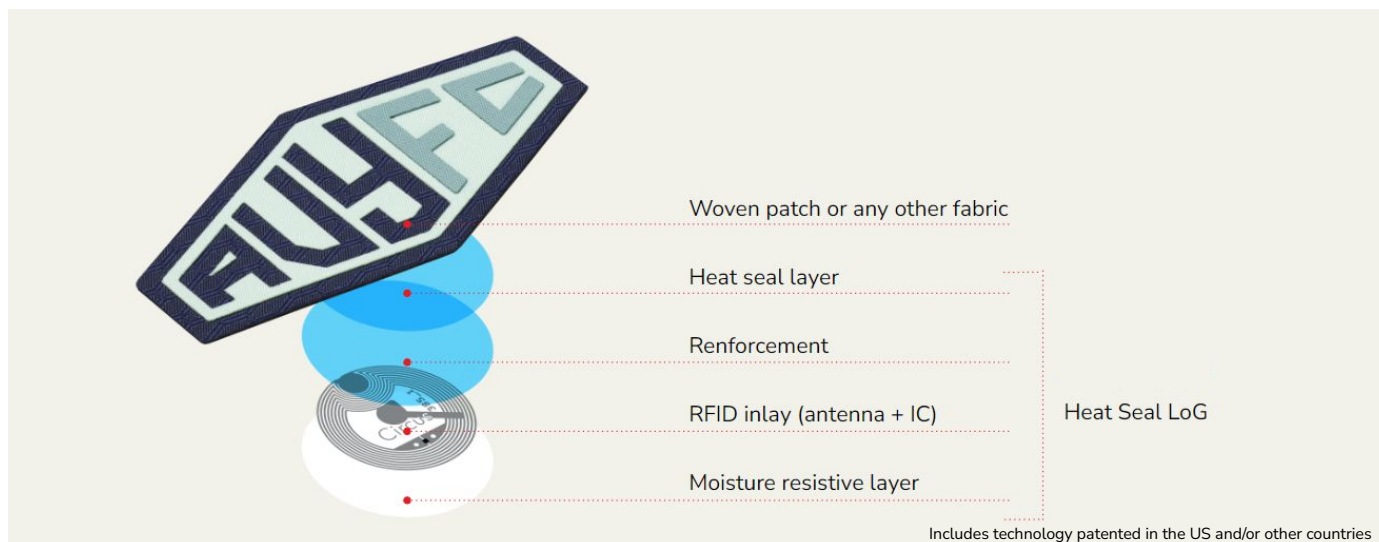
Customer Experience and Product Authentication Applications (NFC RFID)

- Customer engagement
- Brand loyalty (e.g sports merchandise)

Avery Dennison inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product compliant with the needs of retailers.

*Includes technology patented in the US and/or other countries

**We define durable as RF performance passing the defined wash cycles



Available RFID inlays

Available Inlays	Frequency	Chip	Antenna Size	AD Heat Seal LoG* size
AD Circus	NFC	NXP NTAG213	Ø 22mm / 0.87 in	Ø 30 mm / 1.18 in
AD Circus™ Flex	NFC	NXP NTAG213	Ø 20mm / 0.79 in	Ø 30 mm / 1.18 in

100+ Home wash/dry cycles tested with the washer & dryer settings below

Washer Settings	
Machine	Durawash Roaches
Detergent	150 gr of common washing powder containing a brightening agent and an oxygen-based bleaching agent
Ballast	Polyester Makeweights complies with EN ISO 6330:2000/Amd. 1:2008
Ballast Qty	1 Kg
Wash Temp.	49C / 120F
Note	1 minute by Durawash = 1 home cycle

Dryer Settings	
Exhaust Temp.	52 C / 126F

*Includes technology patented in the US and/or other countries

Contact information

rfid.averydennison.com/contact
+1-678-617-2359

Connect with us on:



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Warranty: Please refer to Avery Dennison standard terms and conditions: rfid.averydennison.com/termsandconditions

Care and handling: RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

Applications: This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.