TexTrace™ AC71/AC76 M830 Soft Fabric

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
Impinj M830

IC Attachment Technology
Direct Chip Attach

Antenna Dimensions
7x 11 mm / 0.27x 0.43 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Apparel

Applications
Retail

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

Reliable, Woven Fabric Sew-in RFID Solution for Garment Tracking

The AD TexTrace Soft Fabric solution is designed and developed to remain with the garment for the longest possible time without compromising its functionality. It's offered in two standard dimensions (widths of 15mm and 20mm) and two main colour options (white and black). The Soft Fabric label can be processed with standard RFID thermal transfer printers and has a durability of minimum five home washing cycles in the standard version. Standard variants in terms of dimension, color and durability are possible.

Leveraging the capabilities of Impinj´s M830 chip, the Gen2 UHF RFID inlay is an excellent choice for tracking retail apparel when a sew-in solution is required. TexTrace AC71/AC76 M830 is a high performing die cut RFID inlay featuring a soft, 100% recycled satin antenna carrier. TexTrace AC71/AC76 M830 can be easily applied behind a woven label, providing the ultimate sew-in solution for garment tagging.

TexTrace AC71/AC76 M830 inlays feature 128 bits of EPC memory and a 96-bit unique factory locked TID number. A 96-bit Tag IDentifier (TID) is factory locked with a 48-bit unique serial number embedded into the TID.

Like all RFID products from Avery Dennison, TexTrace AC71/AC76 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.

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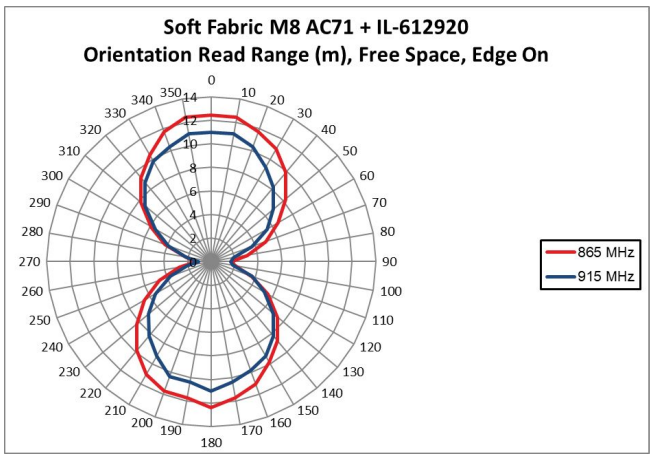
Technical features - Loop

Inlay Loop Model Name	UHF 7 x 11 mm M830
Antenna Dimensions (CDxMD)	7 x 11 mm / 0.27 x 0.43 in
Inlay Die-cut Dimensions	8 x 12 mm / 0.31 x 0.47 in
Standard Pitch	17 mm / 0.67 in
Standard Web Width	25 mm / 0.94 in
Inlay substrate Material	White PET
Inlay-to-liner Adhesive	S8025
Liner Material	Transparent PET

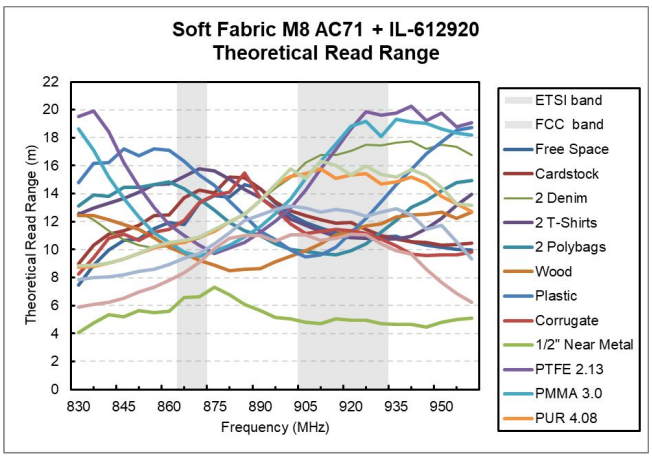
Technical features - Booster

Booster Antenna Design	AC71	AC76
Woven Antenna Dimensions (CDxMD)	20 x 70mm 20 x 118mm	15 x 75mm N/A
EPC and User Memory	128 bit and and 0-bit User Memory	
TID Memory	96-bit / 48-bit unique serial number	
Format	Black TT Tape or White TT Tape	
Material	100% recycled polyester yarns	
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
Durability/Washability	Resists 5 home washing cycles at 40°C	
Quality Assurance	100% read tested with out-of-tolerance inlay(s) being marked	
Unwind Direction	Inlay-side In	
Core Size	76 mm / 3 in	
Size of Roll	MAX OD: 330.2 mm / 13 in	

Orientation Sensitivity -AC71

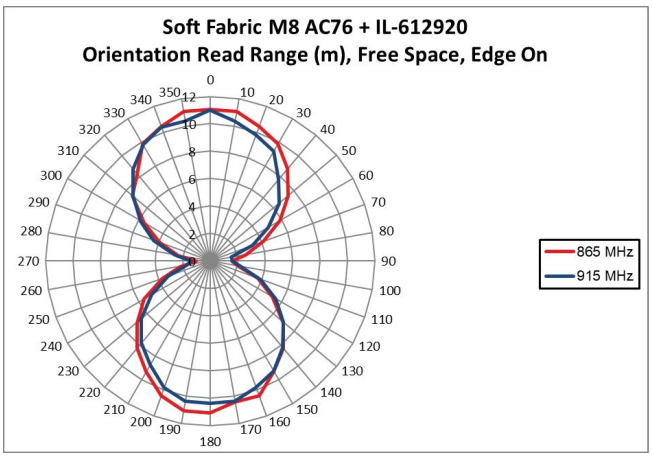


Read Distance - AC71

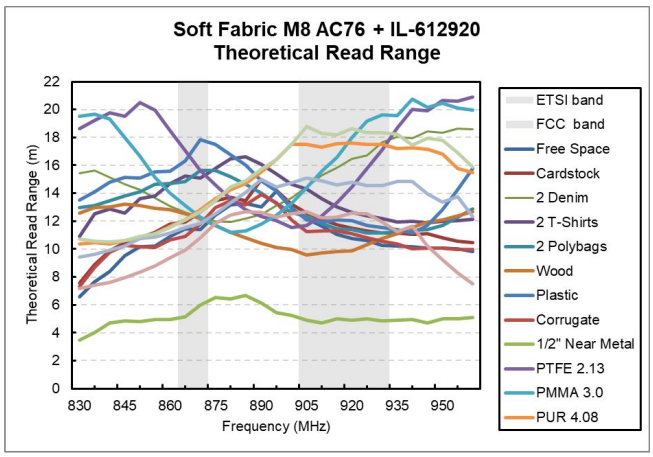


All graphs are indicative: performance in real life applications may vary.

Orientation Sensitivity -AC76



Read Distance - AC76



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

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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.

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