XEBUL



TEX 50x12

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2; ISO18000-63
- Frequency 860-960 MHz (Global);
- IC type (chip)¹ NXP UCODE 8
- Chip memory² 128 bits EPC; 96 bits TID
- **Read range** fixed³ Up to 21.33 ft (6.50 m)
- **Read range** handheld³ Up to 8.20 ft (2.50 m)
- Polarization Linear

Key Features

- + Textile: flexible and washable
- + 100+: commercial washing cycles
- + Cost-effective: for high volume
- Printable: texts, patterns and barcodes

Applications

- Medical scrubs
- Hospital linens
- Hotel linens
- Uniforms
- Rental costumes

Environmental Specifications

Temperatures

- Operational -20°C to +110°C
- Survival -40°C to +110°C
- Washing: 90°C (194° F), 15 minutes
- Pre-drying: 180°C (356°F), 30 minutes
- Ironing: 185°C (365°F), 10 seconds
- Sterilization process: 135°C (275°F), 20 minutes
- Storage humidity 8% 95% RH
- Mechanical resistance 60 bars

Chemicals⁴

- Standard detergents, fabric softeners, bleach, oxygen/chlorine compounds, alkali substances, acetic and peracetic acid
- Compression strength 35.53 psi (245 kPa)
- Vibration MIL-STD-810G
- Warranty l year
- ¹The chip data retention is up to 50 years, based on chip operating under general environment conditions.
- ² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.¬
- ³ Off metal, actual read range may vary based upon use case and antenna power.

⁴The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.





Physical Specifications

- Material Textile
- Dimensions (in)¹ 1.97 x 0.47
- Dimensions (mm)¹ 50 x 12
- Thickness (in)¹ 0.03 in, 0.04 in on chip location
- Thickness (mm)¹ 0.85 mm, 1.10 mm on chip location
- Color White
- Package 1,000 pcs /bag
- Washing method Laundry, dry cleaning

Mounting Systems

Sew or heat-seal based on specific requirements, with different product P/N selections

Installation Instructions

1. Install the tag by sewing:

Sew into a hem or inside a pocket of fabric

2.Install the tag by heat-sealing:

Seal the tag onto the textile at 215°C and 0.6-0.8 MPa for 15 seconds

¹ Tolerance: +/- 0.02; +/- 0.50 ² Tolerance: H: +/- 0.004; H: +/- 0.100

Industry Compliance



Order Information

TEX 50x12 (Sew): X5012-GL010-U8

TEX 50x12 (Heat-seal): X5012-GL011-U8

atlasRFIDstore (205) 383-2244

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Customization Options

Encoding

Laser Marking

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