



TEX 55x12 SILICONE

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2; ISO18000-63
- **Frequency** 860-960 MHz (Global);
- **IC type** (chip)¹ NXP UCODE 9
- **Chip memory**² 96 bits EPC; 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Applicable surface** textiles
- **Read range** off metal³ Up to 19.69 ft (6 m)
- **Polarization** Linear

Key Features

- + **Flexible and washable**
- + **200+:** 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** -40°C to +85°C
-40°F to +185°F
- **Survival** -40°C to +85°C
-40°F to +185°F

Chemicals⁴



- Standard detergents, fabric softeners, bleach, oxygen/chlorine compounds, alkali substances, acetic and peracetic acid

- **Storage humidity** 20% - 60% RH
- **IP rating** IP68
- **Compression strength** 71.07 psi (490 kPa)

- **Shock** 1 m to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 200 washing cycles or 3 years

¹ The chip data retention is up to 20 years, based on chip operating under general environment conditions.

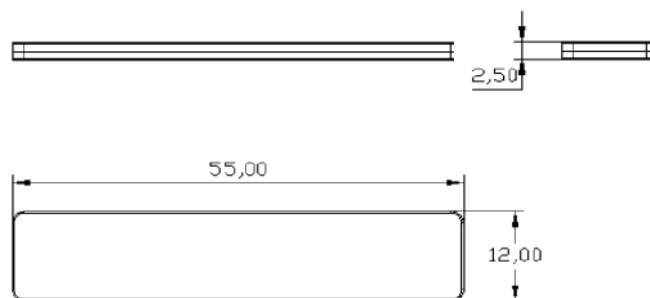
² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Fixed reader, actual read range may vary based upon use case and antenna power.

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

Physical Specifications

- **Material** Silicone
- **Dimensions (in)**¹ 2.17 x 0.47 x 0.10
- **Dimensions (mm)**¹ 55 x 12 x 2.50
- **Color** Gray
- **Weight** 0.07 oz (1.99 g)
- **Washing method** Laundry, dry cleaning



Mounting Systems

- Sew

Installation Instructions

Install the tag by sewing:
Sew into a hem or inside a pocket of fabric

¹ Tolerance: +/- 0.02; +/- 0.50

² Tolerance: H: +/- 0.004; H: +/- 0.100

Industry Compliance



Order Information

TEX 55x12: X5512-GL070-U9

Customization Options

Encoding

Laser Marking

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