

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 metal**³ 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.

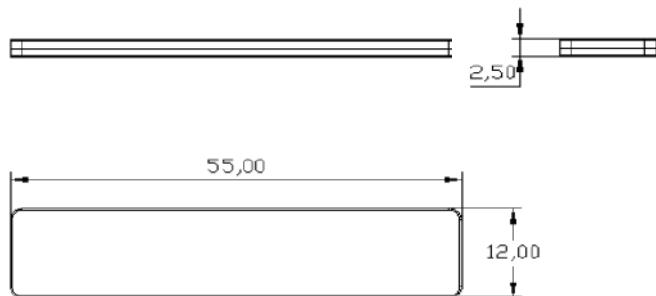
² EPC can be re-programmed, or permanently locked. TID is locked and unique at the point of manufacturing.

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

The information provided by Xerfy Singapore Pte. Ltd. is for general information purposes only. All information on the datasheet is provided in good faith. However we make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of any information on the datasheet.

Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of the product or reliance on any information provided on the datasheet. Your use of the product and your reliance on any information on the datasheet is solely at your own risk.