



# TEX 55x12 SILICONE

## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2; ISO18000-63
- **Frequency** 860-960 MHz (Global);
- **IC type** (chip)<sup>1</sup> NXP UCODE 9
- **Chip memory**<sup>2</sup> 96 bits EPC; 96 bits TID
- **Applicable surface** textiles
- **Read range** off metal<sup>3</sup> Up to 19.69 ft (6 m)
- **Polarization** Linear

## Key Features

- + **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 -40°C to +85°C
- Survival -40°C to +85°C

### Chemicals<sup>4</sup>



- 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** 1 year

<sup>1</sup> The chip data retention is up to 50 years, based on chip operating under general environment conditions.

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

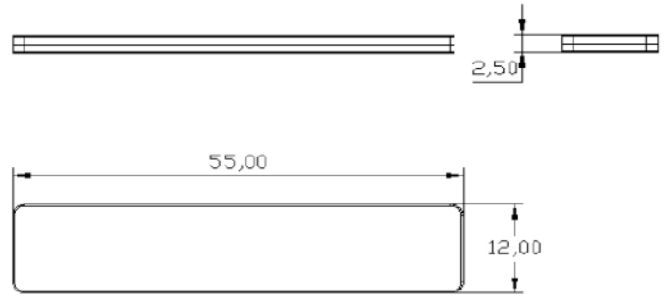
<sup>3</sup> Fixed reader, actual read range may vary based upon use case and antenna power.

<sup>4</sup> 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)**<sup>1</sup> 2.17 x 0.47 x 0.10
- **Dimensions (mm)**<sup>1</sup> 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

<sup>1</sup> Tolerance: +/- 0.02; +/- 0.50

<sup>2</sup> 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 Xerafy 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.

