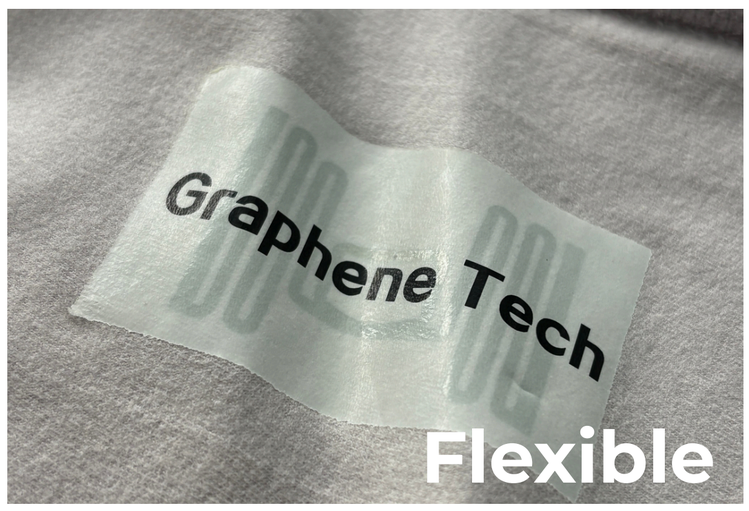
Technology Solutions for Retail

Graphene-printed RFID label for heat transfer BLG6238

100%
Flexible and Stretchable

99%
Eco-friendly

100%
End-to-End Traceability

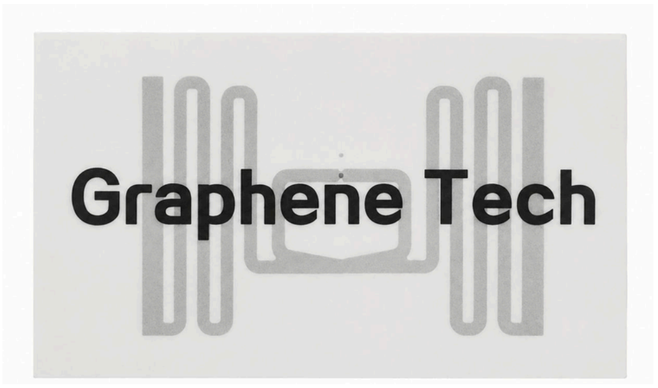




The BLG6238 is a graphene-printed heat-transfer RFID label designed to be integrated directly into the textile fabric. Its ultra-light, thin structure provides an imperceptible wearing experience ("no foreign-body feel") while keeping flexibility, foldability and stretch in everyday use. It reduces the use of PET material and supports up to 99% eco-friendly manufacturing.

Physical Specifications

Chip	NXP Ucode 9
Antenna Dimensions (mm)	43 x 28
Label Dimensions (mm)	62 x 38 (customizable)
Frequency	860-960 MHz



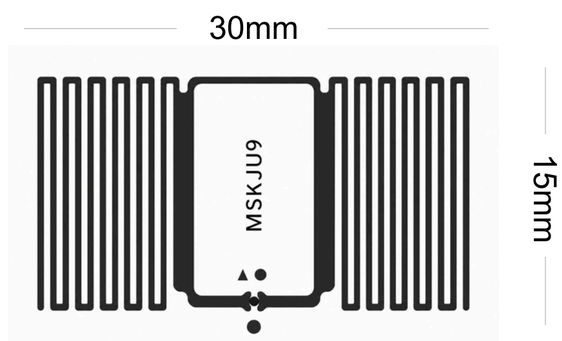
*Read Range: 4~5m

Electrical Specifications

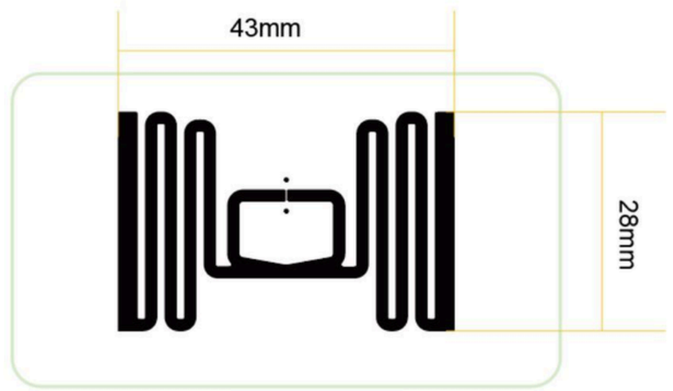
Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
Operating Frequency	860-960 MHz
Integrated Circuit [IC]	NXP U9
EPC Memory	96 bits
User Memory	0 bits
Unique TID	96 bits
Kill Password	32 bits
Access Password	Null
Read Range	2 ~ 3 m / 4 ~ 5 m
Expected Read Cycles	100,000 cycles
Data Retention	20 years

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BLG6238 Graphene Label



Read range: 2~3m

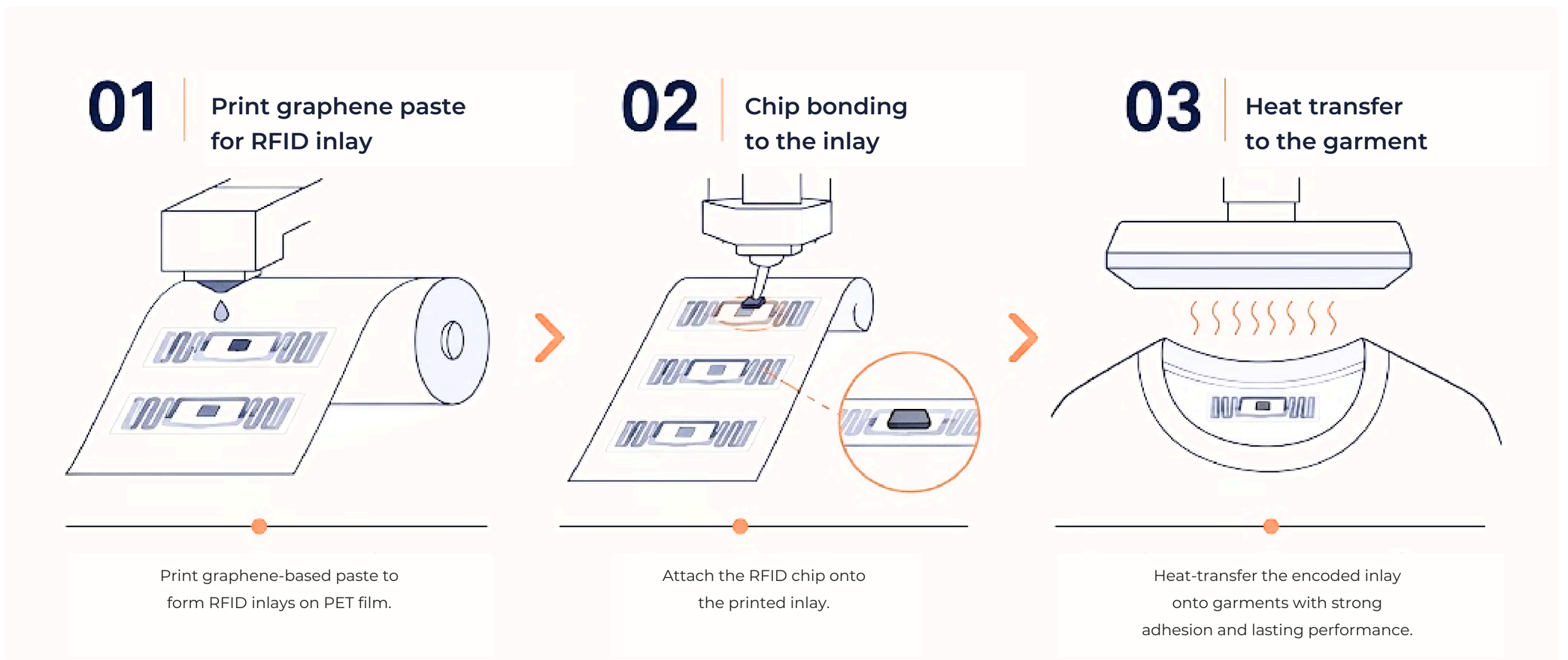


Read range: 4~5m

Environmental Requirements

Operating Temperature	5 ~ 60 °C
Storage Temperature	20 ~ 30 °C
ESD	2 KV (from manufacture)
Shelf Life	1 year in anti-static bag at 20~30 °C / 20%~60% RH

Application Process



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