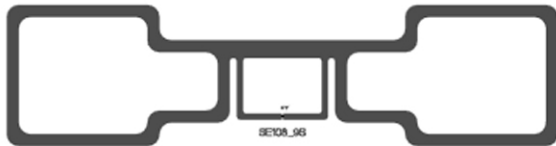


Stora Enso ECO Bumper RFID Inlay

Advanced, eco-friendly, Zebra-certified RFID Inlay

RFID inlays are critical to achieve the real-time visibility needed to streamline operations, minimize errors in asset-related data, as well as track, identify and maximize asset utilization. Zebra Certified Inlays deliver excellent performance, so you can rest assured they will efficiently and effectively encode and read, leading to a higher application ROI and best in-class user experience. The Stora Enso ECO Bumper inlay is an environmentally friendly advanced inlay that offers excellent performance on a wide range of challenging materials. This advanced paper inlay utilizes paper instead of a PET film, resulting in a thin, flexible tag structure, enabling these tags to adhere well to curved surfaces. The use of the fiber-based paper makes the inlay recyclable with other fiber-based material and has no impact on existing waste streams or recycling processes. And the Stora Enso ECO Bumper inlay was tested for optimal performance with Zebra printers and RFID readers, enabling you to maximize the benefits of RFID in your enterprise.



Environmentally Friendly Inlay

Most inlays utilize a PET film making them non-recyclable. By utilizing a fiber-based paper substrate, the ECO Bumper inlay is a thinner, more eco-friendly tag that can be recycled with any other fiber-based materials. Plus, it adds no impact to existing waste streams.

Destructible Inlay

The Stora Enso ECO Bumper inlay is thinner than typical RFID inlays allowing it to easily destruct when removal is attempted, making the tag tamper-evident and enabling data integrity throughout operations.

High Sensitivity for Longer Read Ranges

Designed with a high sensitivity NXP UCODE 8 chipset, Stora Enso Eco Bumper inlays deliver read ranges up to 17 meters.

Zebra Certified for Consistently Exceptional Performance

Zebra employs ISO 9001 quality processes to reduce instances of unsuccessful encoding. We pre-test labels with Zebra readers and printers to ensure industry-leading performance. And, we offer you the latest generation of chips and the same label material from order-to-order to safeguard consistency and quality.

Custom RFID Labeling Solutions

With our state-of-the-art presses and RFID manufacturing equipment, we can create a customized RFID labeling solution to meet the unique requirements of your application. And we can quickly recommend the optimal label material and inlay to achieve maximum ROI.

Unmatched Expertise in RFID

Zebra is your trusted expert in all things RFID. We offer end-to-end RFID solutions – including pre-tested RFID labels made with the right materials and adhesives, along with the highest-performing inlays and chips – customized for your application. We have played a central role in pioneering RFID technologies and defining global standards since the mid-1990's, when smart-label technology first appeared. We were recognized as the #1 RFID brand by the 2018 RFID Journal's Brand Report. And we hold more than 575 RFID patents and numerous industry firsts in RFID.

Maximize the benefits of RFID in your enterprise with the environmentally friendly
Stora Enso ECO Bumper Inlay.

For more information, please visit www.zebra.com/rfidlabels

Specifications

Technical Information

Chip	NXP UCODE 8
EPC Memory	128-bit
TID	96 bit factory locked (48 bit unique)
Read Sensitivity	-23 dBm
Write Sensitivity	-18 dBm
RFID Standards	UHF RFID, EPC Gen2v2, ISO 18000-63, RAIN RFID
Read Range	Up to 17 m in free space

Theoretical Read Range: ETSI (865-868 MHz)*

Air	15 m
Cardboard	16 m
Fiberglass	13 m
Glass	11 m
PTFE	17 m
Polyacetyl	15 m
PVC	16 m
Rubber	11 m

Theoretical Read Range: FCC (902-928 MHz)*

Air	16 m
Cardboard	15 m
Fiberglass	11 m
Glass	12 m
PTFE	15 m
Polyacetyl	13 m
PVC	13 m
Rubber	10 m

Testing and Compliance

All inlays certified by Zebra have been pre-tested with Zebra printers and readers.

Material Testing in End Application

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

Footnotes

*Theoretical read range data is meant to be directional. Actual performance will depend on your application and environment. Testing is recommended.

Radiation Pattern

**Read range drops to 12% of maximum when inlay is perpendicular (90° and 270°) to the reading antenna. To learn more about radiation pattern, visit zebra.com/rfidlabels

Markets and Applications

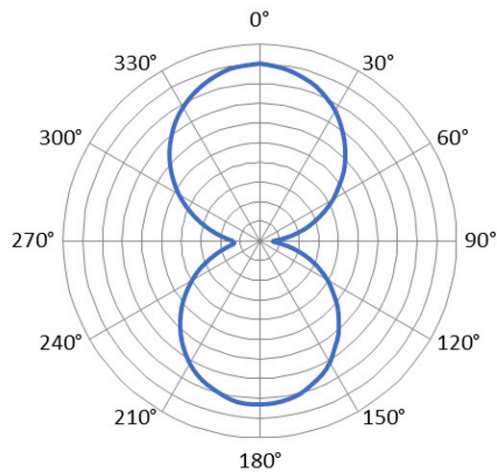
Transportation & Logistics

- Case/pallet labeling

Warehousing

- Work in Process

RADIATION PATTERN**



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