

## Supply Chain breakthrough in RFID Technology

Announcing X-idents InMould RFID transponder for reusable plastic containers from producer to retailer, perishable products such as fruits and vegetables, meat, fish, bread and dairy products etc are usually transported in reusable plastic containers. The plastic containers contribute not only to the considerable reduction of the logistics costs (ROI) through the distribution chain, but also to environmental protection. The logistics process can be optimized by using RFID transponders that are already firmly attached to the plastic boxes during production via an injection procedure.

The RFID tags are attached to the plastic boxes on a molecular level and develop a flat finish on the container surface. Therefore, compared to normal adhesive labels, InMould-Tags become more resistant within the cleaning process when subjected to high-pressure blasters and chemicals, UV radiation, and physical damage during transport.

### Global band width – strong – sturdy

The X-ident InMould-Tag has been developed for the challenging uses of reusable plastic boxes. It remains functional even through the harsh conditions during the production process and can be reused for the general life of the box.

The InMould-Tag incorporates innovative antenna technology, which in turn provides the best reading quality whilst shrink-wrapped. Due to its broad frequency range abilities across the UHF bandwidth, this tag can be used in worldwide applications, from Europe, Asia and the USA with the respective effective standardization. The InMould-Tag is produced in commercial standard dimensions as well as customized versions on request.



## InMould-Tag

Properties	Product code	TTF-Tag 18x180 IP18
<b>Dimensions</b>		
Product dimensions (W x L)		18 x 180 mm
Antenna size (W x L)		7 x 141 mm
Thickness		0,42 mm (0,40 – 0,54)
<b>Electrical parameters *</b>		
Operating frequency		860 – 960 MHz
Technology		EPC Generation 2 und ISO 18000 – 6C
Total memory		96-bit EPC
<b>Thermal properties</b>		
Storage temperature		20°C +- 5°C
Operating temperature (Inlay)		-40°C to +65°C
Injection temperature		up to +220°C (short-term)
<b>Ordering</b>		
Shipping unit		1,000 pieces
Minimum order quantity		1,000 pieces

\* according to Impinj specification

For the highest demands:  
**InMould-Tag**  
 by **X-ident**  
 technology.

