IML RFID TECHNOLOGY

There are millions of packages in supply chains. The lack of disciplined processes and low visibility generate waste in the management of these packages. This means:

▸ **More cycle time and packaging handling costs:** Due to the lack of visibility, the speed at which packages move through the system is not optimized.

▸ **Greater excess of stored packaging:** Lack of visibility in rentals and purchases. High-value assets lost, stolen or misplaced.

▸ **Greater lack of packaging due to lack of control:** The lack of packaging can reach 25 % per year, as RTIs are damaged, lost, poorly stored or simply moved inefficiently.

As a solution, RFID (Radio Frequency Identification) technology emerges, which uses electromagnetic waves to access data stored on a microchip, and was invented in 1973.

We apply this existing technology to our products with IML, which is the integration of a tag into the product during the injection process. As a result, the tag is melted onto the surface of the product and they become one.

▸ **Smart RTI (Returnable Transport Packaging):** RFID tag placed on the container makes each pallet box unique and smart.

▸ **DNA:** The long-lasting IML RFID tag is an integral part of the RTI and cannot be removed.

▸ **External temperature:** In-mold tags withstand humidity and extreme temperatures.

▸ **Resistant:** The IML tag is scratch and crack resistant and cannot be removed even with high pressure washing.

WE ARE TALKING ABOUT AN EXCELLENT RETURN:

50 % - 65 %
Inventory visibility and cycle counting.

20 % - 25 %
Better return time for returnable containers.

10 % - 30 %
Savings on maintenance and inventory costs.

50 % - 75 %
Reduction of reconciliation processes.

Unlike barcode reading, RFID does not require queue of sight, and multiple tags can be read simultaneously without any human intervention. It is possible to fully automate the tracking of RTIs at any known point in the supply chain in real time.

For some, RFID means much better inventory and tracking accuracy. For others, it may mean having access to inventory data that has never been available before (simply because it requires high investment to generate).

Various applications can be built on top of RTI tracking to further leverage its infrastructure and advantages.

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