



POLYCHEM UV/EB INTERNATIONAL CORP.

A new way to permanently embed RFID transponder onto your finished plastic molded products.

The most effective and immediate way to upgrade your plastic products to enter the RFID age without any changes to your current production equipments!!!

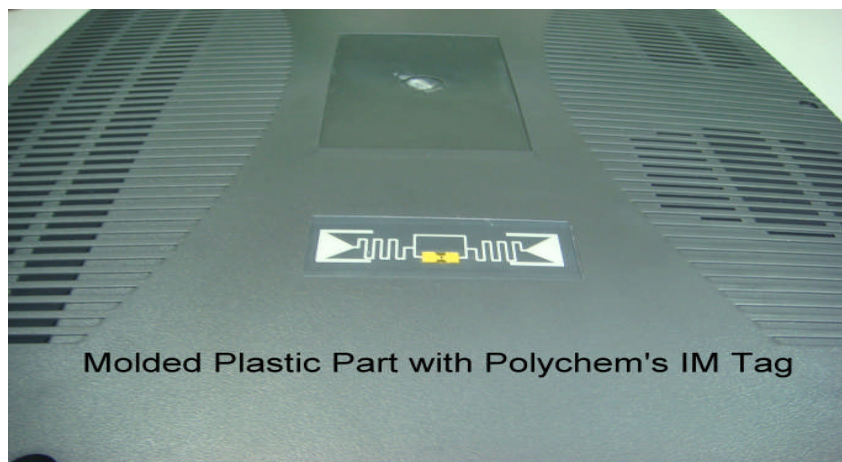
UHF RFID Gen 2 IM Tag for In-Mold Plastic Injection Molding



Features:

This UHF RFID tag is designed with a high-performance antenna and robust encapsulation materials that can keep the RFID transponder from damage during high pressure and high temperature plastic molding processes. Simply put it into your molds, and it will fuse with your molding plastic materials and form an indestructible embedded RFID system with any of your molded plastic parts, The molded surface is smooth and flat, without changing any dimensions of your original plastic parts.

The tag is based on the EPC global Generation 2 specification with 512 bits of user programmable EPC memory field with Read, Write and Lock capabilities.



Molded Plastic Part with Polychem's IM Tag

Applications: For IM (In-Mold plastic molding) manufacturing.

Specifications:

RF Protocol: EPC Gen 2 ISO 18000-6C

Operating Radio Frequency: 860 - 960 MHz

Standard Size: L 53 x W 17 mm x T 0.7 mm, size can be specified

| | |
|---|--|
| Read Range @RF Power 30dB (typical values) | 2.0 meters Can be specified upon customer's request 0.5 to 7 meters by using larger antennas |
| Antenna Substrates | High Performance UV Silver Conductive Ink (Patented) |
| Operating Mode: | Passive |
| Operation Temperature: | -40°C to +75 °C |
| Storage Temperature (single): | -40°C to +75 °C |
| Storage and Operation Humidity: | 30- 90% RH |
| Data Retention | 10 years at + 65°C |
| Delivery Package: | 500 pcs / box |

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