



# Omni-ID Label Tags

| Attachment Guidance



## Best Practices Guide:

Omni-ID products are supplied as standard with a durable label finish. When supplied in a label finish, Omni-ID products can be attached to items using the high performance self-adhesive provided on the back of the tag.

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## Omni-ID is RFID, redefined.

We eliminated the interference to metals and liquids that cause conventional RFID tags to underperform in harsh environments. Our breakthrough technology enables you to track high value assets and manage supply chains with over 99.99% accuracy. Yet, not only have we developed the industry's most reliable RFID tags, we've also built alliances with the most trusted providers of RFID hardware, software, and solutions. Together, we can ensure that you have a complete solution that meets your unique requirements. All of which explains why a growing number of companies are choosing to identify with Omni-ID. Interested in joining them? [Contact Omni-ID today.](#)

## Apply with confidence.

In order to get the most durability out of your Omni-ID label tags please read this document carefully. Best practice should be observed for attachment to assets, especially when a long service life is required.

Adhesion Strength Data<sup>1</sup>

| Substrate       | Adhesion after 72 hours at room temp. using modified D-3330 test procedure |         |
|-----------------|--|---------|
|                 | N/100mm  | Oz/Inch |
| Stainless Steel | 153  | 140     |
| ABS             | 140  | 128     |
| Polypropylene   | 149  | 136     |

Adhesion Technical Data<sup>1</sup>

| Environmental parameter | Self-adhesive performance (after application to asset)   |
|-------------------------|--|
| Humidity                | Minimal  |
| U.V. Exposure           | Minimal  |
| Water                   | No effect  |
| Temperature             | No effect up to 148°C for short periods (minutes, hours) and 93°C for long periods (days, weeks) |

<sup>1</sup> Typical values, not for specification purposes, data is representative of attachment adhesive material only.



### Self-adhesive Attachment

By utilizing high-strength acrylic self adhesive, tags can be easily and quickly applied to assets. This solution provides a very high bond strength to most surfaces including plastics, metals, and even lightly oiled surfaces.

### How to apply.

To ensure optimal adhesive strength, please follow the recommended attachment process:

#### 1. Surface preparation

For maximum bond strength, the surface should be thoroughly cleaned and dried; solvents such as heptanes and isopropyl alcohol are typical. Carefully read and follow manufacturers' precautions and directions for use with cleaning solvents.

#### 2. Application temperature

Tags should ideally be applied to assets between 21-38°C (70-100°F). Not recommended below 10°C (50°F), as the adhesive becomes too firm to adhere to the item. Once attached, the bond strength is good across -40°C to 93°C temperature range for prolonged periods.

#### 3. Pressure

By applying firm progressive pressure to the top of the tag during application, the bond strength will be significantly improved.

#### 4. Time

Typically, bond strength improves as a function of time. After 15 minutes, the bond strength will be approximately 75 percent, with full bond strength achieved after 72 hours (based on tag application at room temperature).



Omni-ID is the leading supplier of passive, low-profile UHF RFID solutions. Through our patented technology, Omni-ID “cracked the code” to overcome the problems traditionally associated with RFID, enabling a broad range of new applications that improve accuracy and efficiency in asset tracking, supply chain management and work-in-process.

Our family of versatile RFID tags works reliably in the harshest environments, including on, off, and near metal and liquids and excels in solving tracking and identification challenges with unprecedented accuracy.

With offices in the USA, UK, Asia and India backed up by a purpose-built manufacturing facility in China, our mission is to drive the widespread adoption of RFID and wider IoT technologies as the optimal tracking and identification devices.

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for all product or technology inquiries and we will be pleased to get in touch.

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