

SMART RFID LABELS **MOM 6024 TP**





Syndicate's MOM 6024 TP is a non-transferable tamper-proof label for on metal applications demanding a small form factor and good read range. Supplied in roll form with a high performance permanent adhesive as finished label, it can be encoded and printed with typical RFID printers that are capable of printing labels.

These labels feature a film face to print logos, product information, or scannable barcodes directly on the label and its additional flexibility for curved surfaces makes it perfect for tracking a variety of transit items.

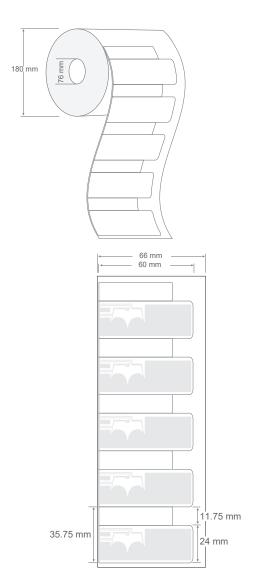
With good performance on metal, this product is ideal for tracking assets in the healthcare, IT (Information Technology), oil & gas industries, industrial manufacturing, and many other industry verticals.

TYPICAL APPLICATIONS

Only for metal surfaces

- Indoor Asset Management: IT Assets, furniture's, home appliances and kitchen equipment
- Automotive: Components, spare parts and RTI's
- Healthcare: Hospital Assets & Equipment's
- Industrial: Metal assets, structural steel and RTI's
- · Retail: RTI's

| PHYSICAL SPECIFICATION | | |
|------------------------|--|--|
| Face Stock | Printable white PET, resin ribbon is recommended | |
| Label Sizes | 60 x 24 x 1.2 mm 2.36 x 0.94 x 0.047 in | |
| Adhesive | High performance acrylic adhesive | |
| Weight | 0.6 g | |
| Delivery format | Roll form | |
| No. of Labels/ Reel | 500 pcs | |
| Label Pitch | 35.75 mm / 1.41 in | |
| Core inner diameter | 76 mm / 3 in | |
| Roll outer diameter | 180 mm / 7.08 in | |

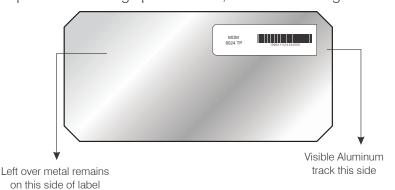


| RF SPECIFICATION | |
|------------------------------|--|
| Mode of Operation | Passive |
| Device type | Class 1 Gen 2 Passive UHF RFID transponder |
| Air interface protocol | EPC Global Class 1 Gen 2 ISO 18000-6C |
| Operational frequency | ETSI : 865-868 MHz FCC : 902-928 MHz |
| IC type* | NXP UCODE 8 |
| Memory configuration | Upto 128 bits |
| Data Retention | Upto 20 years |
| Write cycle endurance | 100,000 |
| Read range (2W ERP)** | ETSI: On Metal Upto 1.55 m FCC: On Metal Upto 1.7 m |
| Applicable Surface Materials | Metallic surfaces |

| ENVIRONMENTAL RESISTANCE | |
|-------------------------------------|---|
| Operating Temperature | -20°C to +70°C / -4°F to +158°F |
| Withstands Exposure To | 95% humidity, $60^{\circ}\text{C} \times 100 \text{ h}$, 50% humidity, $80^{\circ}\text{C} \times 100 \text{ h}$ |
| Peak Temperature | +80°C (Label remains securely attached with object. No physical or performance changes observed.) |
| Adhesive Service Temperature | -20°C to +70°C / -4°F to +158°F |
| Recommended Application Temperature | +10°C to +38°C |
| Water Resistance | IP67 |
| Chemical Resistance | Resistant to chemical solvents and moisture |
| Ideal Storage Condition | +20°C / 50% RH |
| Expected Lifetime | Years in normal operating conditions |

PRODUCT INSTALLATION

Attach label in close proximity to edge of metal surface for optimum read range performance, as shown in image below.



- Ensure the application surface is not uneven and is clean and dry, to obtain maximum bond strength. If required, use approved cleaning solvents to clean surface.
- Avoid touching the backside of the label while mounting it

PERSONALIZATION OPTIONS

Pre-encoding

• Customer specific encoding of EPC

Customized Printing

• Customer specific layout including logo, text, numbers, barcodes etc.

ORDER INFORMATION

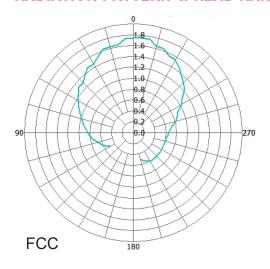
Part Number

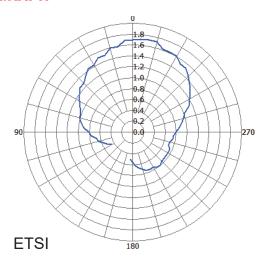
- RF.LI.TT.MOM.6024TP.ETSI
- RF.LI.TT.MOM.6024TP.FCC

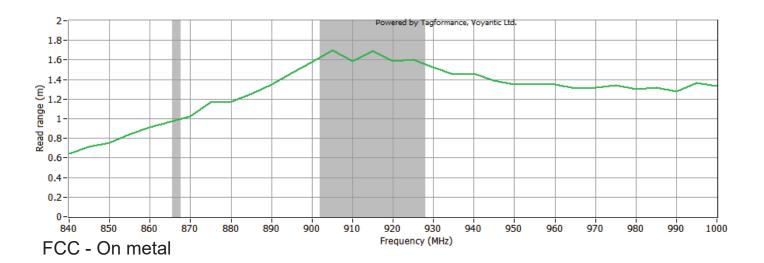
Roll Sizes

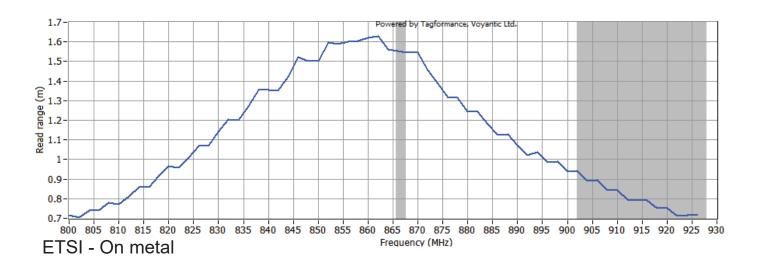
• 500 Labels per Roll / 4 Rolls per Carton

RADIATION PATTERN & READ RANGE GRAPH













^{*} Other IC's available on request

^{**} The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.