Durable Labelling Solutions

High-Temperature Resistant Labels:
Our labels are engineered to withstand extreme heat, ensuring durability and legibility in the most demanding environments.

Strong Adhesive Labels:
Designed with a powerful adhesive, our labels offer reliable adhesion to various surfaces, ensuring long-lasting performance.

RFID Tags:
We provide RFID tags that enable efficient tracking and management of your inventory, enhancioperational efficiency and accuracy.

HIGH TEMPERATURE TAG
AUT-7080
Material : ALUMINIUM
Thickness : 80 Micron
Temperature : 700 °C
Application : Iron and steel Labelling
Print Method : Thermal Transfer Ribbon

RFID
RFID WAVE BLOCKING TAG
APT-7000
Chip : NXP UCODE9
Material : ALU + PET + TTP
Thickness : 200 Micron
Temperature : 400 °C
Application : Iron and Steel Labelling

About Us

About Egen Barcode Labels

Egen Barcode Label specializes in the production of high-temperature resistant labels, strong adhesive labels, and RFID tags. We pride ourselves on delivering top-quality labeling solutions tailored to meet your specific needs.

Our Products:

High-Temperature Resistant Labels: Our labels are engineered to withstand extreme heat, ensuring durability and legibility in the most demanding environments.

Strong Adhesive Labels: Designed with a powerful adhesive, our labels offer reliable adhesion to various surfaces, ensuring long-lasting performance.

RFID Tags: We provide RFID tags that enable efficient tracking and management of your inventory, enhancing operational efficiency and accuracy.

Why Choose Egen Barcode Labels?

Quality Assurance: Our products undergo rigorous quality control measures to ensure superior performance and reliability.
Custom Solutions: We understand that every business has unique requirements. That's why we offer customizable labeling solutions tailored to your specific needs.
Industry Expertise: With years of experience in the labeling industry, we stay updated with the latest trends and technologies to deliver cutting-edge solutions.
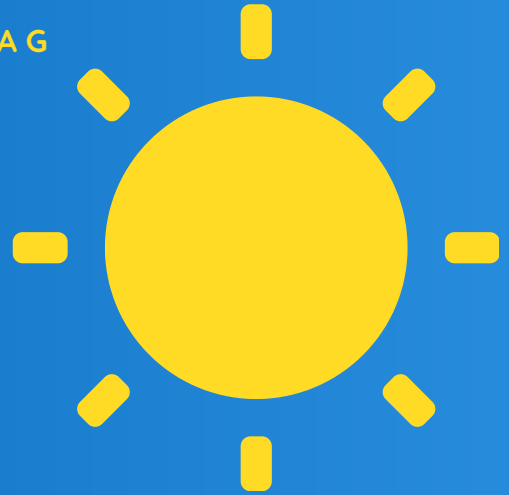
Get in Touch:

We invite you to test our product samples and request price quotations for your procurement needs. Contact us today to discover how Egen Barcode Labels can fulfill your labeling requirements efficiently and effectively.
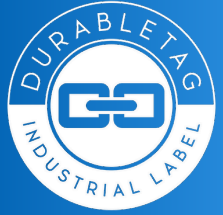
ALUMINIUM 80 TOP COATED SILVER TAG

700°C

AUT 7080

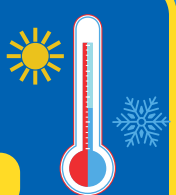|		
POLYIMIDE 580 °C PMT 7060	**ALU + PET + TTP** 400 °C APT 7000	**POLYESTER** 300 °C PST 7050
PET + ALU + PET 300 °C PST 7040	**TTP + PET + TTP** 300 °C PST 7030	**POLIETILEN** 80 °C SPT 7070

AUT 7080	ALUMINIUM 80 TOP COATED SILVER TAG
PMT 7060	POLYIMIDE 150 TOP COATED WHITE TAG
APT 7000	ALU + PET + TTP 200 WHITE TAG
PST 7050	POLYESTER 250 WHITE TAG
PST 7040	PET + ALU + PET 180 SILVER TAG
PST 7030	TTP + PET + TTP 220 WHITE TAG
SPT 7070	SYNTHETIC POLIETILEN 200 WHITE TAG

High Temperature
Aluminium Tag

AUT 7080

ALUMINIUM 80 TC SILVER TAG

Product Code : AUT 7080

Product Name : ALUMINIUM 80 TC SILVER TAG

Facestock : A 80 µm Aluminium film coated one side with a high caliper silver topcoat. AUT 7080 tag labels are designed for use in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common.

Basis Weight : 220 g/m² ±10%

Caliper : 80 µm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : -80 ℃ to 700 ℃ / -176 ℉ to 1292 ℉

Short Term Exposure <15 min : 700 ℃ to (1292 ℉)

Long Term Operating Temperature : -40 ℃ to 500 ℃ (932 ℉)

ALUMINIUM 80 TC SILVER TAG
It is a hand tag used for identification purposes in the metal industry. The product shows excellent heat resistance. It is also resistant to UV light and outdoor conditions. It is suitable for the applications that tags where exposed to high temperatures up to + 700° C / short term.

Typical applications include identification tags in the steel industry when high heat resistance is required.

Application tests are highly recommended.

-80 ℃ ~ +700 ℃

PMT 7060

POLYIMIDE 150 TC WHITE TAG

-80 ℃ ~ +580 ℃

High Temperature
Polyimide Tag

Product Code : PMT7060

Product Name : POLYIMIDE 150 TC WHITE TAG

Facestock : A 150 µm polyimide film coated on both sides with a high caliper white topcoat. PMT7060 tag labels are designed for use in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 200 g/m² ±10%

Caliper : 150 µm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : - 80 ℃ to 580 ℃ / - 112 ℉ to 1076 ℉

Short Term Exposure <5 min : 1076 ℉ (580 ℃)

Long Term Operating Temperature : -40 ℃ to 400 ℃

POLYIMIDE 150 TC WHITE TAG is a hang tag label used for identification purposes in the metal industry.
The product demonstrates excellent tear strength, heat resistance, dimensional stability and chemical resistance. It is suitable for applications in which tags are exposed short term to high temperatures up to +580℃.
The specially designed topcoat in combination with the appropriate thermal transfer ribbon features high abrasion, scratch, heat and solvent resistance.
Typical applications include identification tags in the steel industry when high heat resistance is required.
- Application tests are highly recommended.

High Temperature
Polyester Tag

APT 7000

ALU + PET + TTP 200 WHITE TAG

Product Code : APT7000

Product Name : ALU + PET + TTP 200 WHITE TAG

Facestock : Aluminium + Polyester + TTP 200 APT7000 tag labels are designed to be used in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 300 g/m² ±10%

Caliper : 200 µm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : -80 °C to 400 °C / -112 °F to 752 °F

Short Term Exposure <5 min : 752 °F (400 °C)

Long Term Operating Temperature : -40 °C to 300 °C

ALU + PET + TTP 200 WHITE TAG is a hang tag label used for identification purposes in the metal industry.
The product demonstrates excellent tear strength, heat resistance, dimensional stability and chemical resistance. It is suitable for applications in which tags are exposed short term to high temperatures up to +400°C.
The specially designed topcoat in combination with the appropriate thermal transfer ribbon features high abrasion, scratch, heat and solvent resistance.
Typical applications include identification tags in the steel industry when high heat resistance is required.
Application tests are highly recommended.

RFID WAVE BLOCKING TAG

APT-7000

Chip : NXP UCODE9
Material : ALU + PET + TTP
Thickness : 200 Micron
Temperature : 400 °C
Application : Iron and Steel Labelling
Print Method : Thermal Transfer Ribbon

-80 °C ~ +400 °C

PST 7050

POLYESTER 250 WHITE TAG

High Temperature
Polyester Tag

Product Code : PST7050

Product Name : POLYESTER 250 WHITE TAG

Facestock : Polyester PST7050 tag labels are designed for use in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 350 g/m² ±10%

Caliper : 250 µm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : 4 °C to 300 °C / 39 °F to 572 °F

Short Term Exposure <30 min : 572 °F (300 °C)

Long Term Operating Temperature : 4 °C to 200 °C

POLYESTER 250 WHITE TAG is a hang tag label used for identification purposes in the metal industry.

- Labels for thermal transfer printers or manual annotation.
- Material resistant to adverse weather conditions.
- Labels for metals identification and traceability.
- We produce blank labels, in color or pre-printed with your logo and company information.

Good printing quality for barcodes and QR codes. Wipe-resistant printing.

+4 °C ~ +300 °C

High Temperature
Polyester Tag

PST 7040

PET + ALU + PET 180 SILVER TAG

Product Code : PST7040

Product Name : PET + ALU + PET 180 SILVER TAG

Facestock : Polyester + Aluminium + Polyester PST7040 silver tag labels are designed for use in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 250 g/m² ±10%

Caliper : 180 μm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : 4 ℃ to 300 ℃ / 39 ℉ to 572 ℉

Short Term Exposure <30 min : 572 ℉ (300 ℃)

Long Term Operating Temperature : 4 ℃ to 200 ℃

PET + ALU + PET 180 SILVER TAG is a hang tag label used for identification purposes in the metal industry.

- Labels for thermal transfer printers or manual annotation.
- Material resistant to adverse weather conditions.
- Labels for metals identification and traceability.
- We produce blank labels, in color or pre-printed with your logo and company information.
- Good printing quality for barcodes and QR codes. Wipe-resistant printing.

+4 ℃ ~ +300 ℃

PST 7030

TTP + PET + TTP 220 WHITE TAG

+4 ℃ ~ +300 ℃

High Temperature
Polyester Tag

Product Code : PST7030

Product Name : TTP + PET + TTP 220 WHITE TAG

Facestock : Thermal Transfer Paper + Polyester + Thermal Transfer Paper PST7030 tag labels are designed to be used in the toughest applications such as outdoors, extreme temperatures, and environments where chemical interaction is common. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 300 g/m² ±10%

Caliper : 220 μm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : 4 ℃ to 300 ℃ / 39 ℉ to 572 ℉

Short Term Exposure <30 min : 572 ℉ (300 ℃)

Long Term Operating Temperature : 4 ℃ to 200 ℃

TTP + PET + TTP 220 WHITE TAG is a hang tag label used for identification purposes in the metal industry.

- Labels for thermal transfer printers or manual annotation.
- Material resistant to adverse weather conditions.
- Labels for metals identification and traceability.
- We produce blank labels, in color or pre-printed with your logo and company information.
- Good printing quality for barcodes and QR codes. Wipe-resistant printing.

High Temperature Synthetic Tag

SPT 7070

SYNTHETIC POLIETILEN 200 WHITE TAG

-60 °C to 80 °C

Product Code : SPT7070

Product Name : SYNTHETIC POLIETILEN 200 WHITE TAG

Facestock : Synthetic Polietilen 7070 film includes a large variety of properties: water resistant, tear resistant, outdoor use, top quality printing, environment friendly.

Basis Weight : 195 g/m² ±10%

Caliper : 200 μm ±10%

Adhesive : Non Adhesive Tag

Service Temperature : -60 °C to 80 °C / -76 °F to 176 °F

Short Term Exposure <30 min : 80 °C (176 °F)

Long Term Operating Temperature : 60 °C (140 °F)

SYNTHETIC POLIETILEN 200 WHITE TAG is a hang tag label used for identification purposes in the metal industry.

- Labels for thermal transfer printers or manual annotation.
- Material resistant to adverse weather conditions.
- Labels for metals identification and traceability.
- We produce blank labels, in color or pre-printed with your logo and company information.
- Good printing quality for barcodes and QR codes. Wipe-resistant printing.
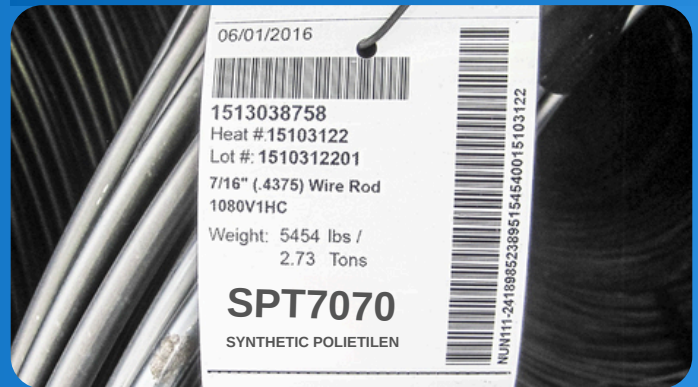
Shelf Life : To obtain optimal performance, use this product within one year of the date of manufacture, under storage conditions as defined by FINAT (20-25°C; 40-50%RH). Prolonged storage outside these conditions might reduce the shelf life.

Warranty : © 2024, DURABLETAG

APPLICATIONS

Pipe Labels	Wire Labels
Appliances	Heavy Equipment
Mechanical Equipment	Rebar Labels
Steel Labels	Variable Data
Metal Industry	High Temperatures

ALUMINIUM 200 TC MATT WHITE SA88 WG

450 °C

AUL 6050
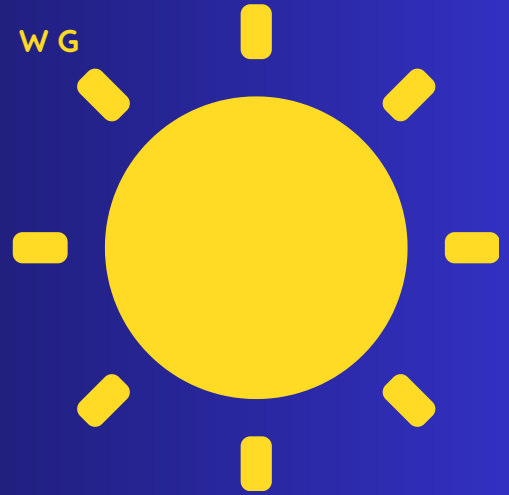
POLYIMIDE 260 °C PML 6061	**ALU + PET + TTP** 260 °C PML 6060	**POLYESTER** 220 °C PSL 3060
PET + ALU + PET 150 °C PSL 3050	**TTP + PET + TTP** 150 °C PSL 3030	

AUL 6050	ALUMINIUM 200 TC MATT WHITE SA88 WG
PML 6061	POLYIMIDE 70 TC MATT WHITE SA88 WG
PML 6060	POLYIMIDE 46 TC MATT WHITE SA88 WG
PSL 3060	PET TC MATT WHITE PA93-WG FSC
PSL 3050	PET TC WHITE HM45-WG FSC
PSL 3030	PET TC MATT SILVER PA07-WG FSC

High Temperature Aluminium Label

Product Code : AUL6050

Product Name : ALUMINIUM 200 TC MATT WHITE SA88 WG

Facestock : A durable Aluminium film with a high-temperature resistant, highly opaque, semi-matt white topcoat The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 202 g/m² ISO 536   **Caliper :** 75 μm ISO 534

Adhesive : SA88 is a high temperature acrylic adhesive with excellent heat and chemical resistance.

Liner : White , a supercalendered glassine paper.

Basis Weight : 80g/m² ISO 536   **Caliper :** 68 μm ISO 534

Total Caliper : 194 μm±10% ISO 534

Min. Application : Temp. 10 °C

Service Temperature : - 40 °F to 842 °F (-40 °C to 450 °C)

Short Term Exposure <30 min : 842 °F (450 °C)

Long Term Operating Temperature : -40 °F to 572 °F (-40 °C to 300 °C)

ALUMINIUM 200 TC MATT WHITE SA88 WG label used for identification purposes in the metal industry
The product demonstrates excellent tear strength, heat resistance, dimensional stability and chemical resistance. It is suitable for applications in which tags are exposedshort term to high temperatures up to +450°C.
The specially designed topcoat in combination with the appropriate thermal transfer ribbon features high abrasion, scratch, heat and solvent resistance.
Typical applications include identification tags in the steel industry when high heat resistance is required.
Application tests are highly recommended.

AUL 6050

ALUMINIUM 200 TC MATT WHITE SA88 WG

-40 °C ~ + 450 °C

PML 6061

POLYIMIDE 70 TC MATT WHITE SA88 WG

-4 °C ~ + 260 °C

High Temperature Polyimide Label

Product Code : PML6061

Product Name : POLYIMIDE 70 TC MATT WHITE SA88 WG

Facestock : A durable polyimide film with a high-temperature resistant, highly opaque, semi-matt white topcoat The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 110 g/m² ISO 536

Caliper : 71 μm ISO 534

Adhesive : SA88 is a high temperature acrylic adhesive with excellent heat and chemical resistance.

Liner : White , a supercalendered glassine paper.

Basis Weight : 80g/m² ISO 536

Caliper : 68 μm ISO 534

Total Caliper : 168 μm±10% ISO 534

Min. Application : Temp. 10 °C

Service Temperature : -4 °C to 260°C

Applications : This polyimide label material is optimised for thermal transfer printing and specially formulated to withstand the high temperatures of the reflow process. It can be applied to all lead and lead-free soldering processes in the market, but is not recommended for wave solder applications when applied to the bottom side of the PCB. Depending on the circumstances, the material can withstand peak temperatures of up to +300°C without color change or loss of adhesion. Application testing is highly recommended. The engineered topcoat in combination with the appropriate thermal tranfer ribbon features excellent scuff, scratch high temperature and solvent resistance.

High Temperature Polyimide Label

Product Code : PML6060

Product Name : POLYIMIDE 46 TC MATT WHITE SA88 WG

Facestock : A durable polyimide film with a high-temperature resistant, highly opaque, semi-matt white topcoat The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 75 g/m² ISO 536   **Caliper :** 46 µm ISO 534

Adhesive : SA88 is a high temperature acrylic adhesive with excellent heat and chemical resistance.

Liner : White , a supercalendered glassine paper.

Basis Weight : 80g/m² ISO 536   **Caliper :** 70 µm ISO 534

Total Caliper : 143 µm±10% ISO 534

Min. Application : Temp. 10 °C

Service Temperature : -4 °C to 260°C

Applications : This polyimide label material is optimised for thermal transfer printing and specially formulated to withstand the high temperatures of the reflow process. It can be applied to all lead and lead-free soldering processes in the market, but is not recommended for wave solder applications when applied to the bottom side of the PCB. Depending on the circumstances, the material can withstand peak temperatures of up to +300°C without color change or loss of adhesion. Application testing is highly recommended. The engineered topcoat in combination with the appropriate thermal tranfer ribbon features excellent scuff, scratch high temperature and solvent resistance.

PML 6060

POLYIMIDE 46 TC MATT WHITE SA88 WG

-40 °C ~ + 450 °C

PSL 3060

PET TC MATT WHITE PA93-WG FSC

-4 °C ~ + 260 °C

High Temperature Polyester Label

Product Code : PSL3060

Product Name : PET TC MATT WHITE PA93-WG FSC

Facestock : A polyester film , coated on both sides with a semi-matt, print receptive topcoat. . The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 55 g/m² ISO 536

Caliper : 50 µm ISO 534

Adhesive : Permanent acrylic adhesive, Heat stabilized

Liner : White FSC is a supercalendered glassine paper. The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight : 78 g/m² ISO 536

Caliper : 68 µm ISO 534

Total Caliper : 164 µm±10% ISO 534

Min. Application : Temp. 5 °C

Service Temperature : -40 °C to 220 °C

Adhesive Performance : This product is designed for the use in short term high temperature (< 220°C) environments, for example in the metal processing industry. Application tests are recommended. The high coat weight adhesive providing high tack and peel makes this product suitable for labelling rough and even slightly contaminated substrates.

High Temperature Polyester Label

PSL 3050
PET TC WHITE HM45-WG FSC

- 40 °C ~ + 150 °C

Product Code : PSL3050

Product Name : PET TC WHITE HM45-WG FSC

Facestock : A gloss white polyester film with 'top coated' surface for enhanced ink adhesion.

Basis Weight : 71 g/m² ISO 536

Caliper : 50 µm ISO 534

Adhesive : A special purpose permanent, rubber based adhesive.

Liner : White FSC is a supercalendered glassine paper.
The liner is made from FSC® certified paper (FSC Mix Credit,chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight : 70 g/m² ISO 536

Caliper : 61 µm ISO 534

Total Caliper : 142 µm±10% ISO 534

Min. Application : Temp. -5 °C

Service Temperature : -40 °C to 150 °C

Adhesive Performance : The aggressive nature of the adhesive provides excellent performance on rough or apolar substrates, as well as at low temperatures.
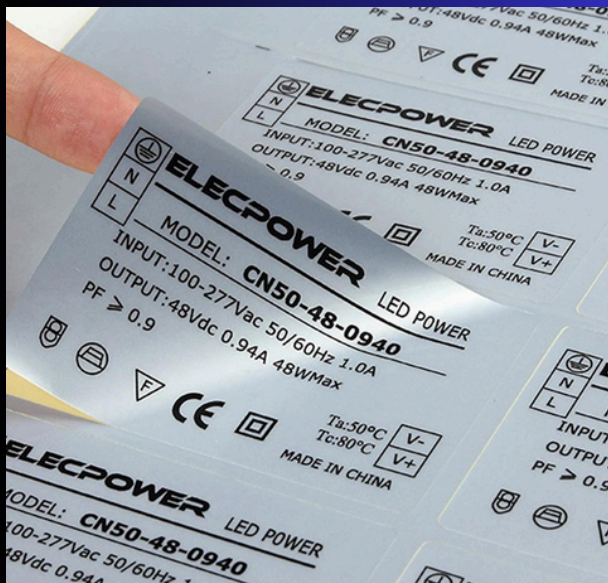

PSL 3030
PET TC MATT SILVER PA07-WG FSC

- 40 °C ~ + 150 °C

High Temperature Polyester Label

Product Code : PSL3030

Product Name : PET TC MATT SILVER PA07-WG FSC

Facestock : A matt finished metallic polyester film. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight : 70 g/m² ISO 536

Caliper : 50 µm ISO 534

Adhesive : Permanent general purpose adhesive

Liner : White FSC is a supercalendered glassine paper.
The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight : 58 g/m² ISO 536

Caliper : 51 µm ISO 534

Total Caliper : 120 µm±10% ISO 534

Min. Application : Temp. 5 °C

Service Temperature : -40 °C to 150 °C

Adhesive Performance : The adhesive is designed for labelling smooth surfaces with a high or medium surface energy like metals or plastics, for example ABS, Polystyrene, Polycarbonate and Nylon.

PPL5210

TC MAT WHITE PP138 SRH -HWG2S

gr
88
m2

STRONG

"Caution: Contains aggressive adhesive."

POLYPROPYLENE	POLYPROPYLENE	HD POLYETHYLENE
45 g/m²	35 g/m²	35 g/m²
Strong Adhesive	Strong Adhesive	Strong Adhesive
PPL 5150	PPL 5200	HDL5250

PPL 5210	TC MAT WHITE PP138 SRH -HWG2S
PPL 5150	TC TOP WHITE PP44 SRH -WG2S FSC
PPL 5200	TC TOP WHITE HM45 BG FSC
HDL 5250	TC HDPE 105 HM 45 -BG FSC

PPL 5210

TC MAT WHITE PP138 SRH -HWG2S

Product Code : PPL5210

Product Name : TC MAT WHITE PP138 SRH -HWG2S

Facestock : Bioriented top - coated matt white polypropylene, extreme resistance to tear, puncture and tear propagation. Specially for labelling rough surfaces.

Basis Weight : 100 g/m² ISO 536

Caliper : 138 µm ISO 534

Adhesive : Aggressive adhesive , Synthetic Rubber Hotmet

Liner : Supercalendered glassine paper, havana colour, two sides siliconize

Basis Weight : 80 g/m² ISO 536

Caliper : 68 µm ISO 534

Total Caliper : 295 µm±10% ISO 534

Initial Tack :   65 N ±10 / 25mm FTM 9 Glass

Peel Adhesion 90° :   35 N ±3 / 25mm FTM 2 St

Service Temperature : - 40 °C to 70 °C (158 °F)

Min. Application : Temp. - 5 °C

Adhesive Performance : Adhesive labels for marking and identification of irregular metal surfaces, adhesive labels for concrete surfaces , security identification labels for metal transport

88 ±5 g/m²

PPL 5150

TC TOP WHITE PP44 SRH -WG2S FSC

Product Code : PPL5150

Product Name : TC MAT WHITE PP44 SRH -WG2S FSC

Facestock : Bioriented top - coated white polypropylene, extreme resistance to tear, puncture and tear propagation. Specially for labelling rough surfaces.

Basis Weight : 44 g/m² ISO 536

Caliper : 58 µm ISO 534

Adhesive : Aggressive adhesive , Synthetic Rubber Hotmet

Liner : Supercalendered glassine paper, white colour, two sides siliconize

Basis Weight : 78 g/m² ISO 536

Caliper : 68 µm ISO 534

Total Caliper : 187 µm±10% ISO 534

Initial Tack :   45 N ±10 / 25mm FTM 9 Glass

Peel Adhesion 90° :   25 N ±3 / 25mm FTM 2 St

Service Temperature : - 20 °C to 70 °C (158 °F)

Min. Application : Temp. 0 °C

Adhesive Performance : SRH uses an aggressive formulation developed for labelling rubber with irregular and curved surfaces. It withstands typical chemicals used by tyre manufacturers, such as mould release agents or components migrating from the rubber.

45 ±5 g/m²

High Temperature
Strong Adhesıve Label

PPL 5200
TC TOP WHITE HM45 BG FSC

Product Code : PPL5200

Product Name : TC TOP WHITE HM45 BG FSC

Facestock : Bioriented top - coated white polypropylene, extreme resistance to tear, puncture and tear propagation. Specially for labelling rough surfaces.

Basis Weight : 42 g/m² ISO 536

Caliper : 60 µm ISO 534

Adhesive : A special purpose permanent, rubber based adhesive

Liner : Supercalendered glassine paper, white colour FSC

Basis Weight : 70 g/m² ISO 536

Caliper : 61 µm ISO 534

Total Caliper : 152 µm±10% ISO 534

Initial Tack : 33 N ±10 / 25mm FTM 9 Glass

Peel Adhesion 90° : 17 N ±3 / 25mm FTM 2 St

Service Temperature : - 20 °C to 70 °C (158 °F)

Min. Application : Temp. -5 °C

Adhesive Performance : The aggressive nature of the adhesive provides excellent performance on rough or apolar substrates, as well as at low temperatures.

35 ±5 g/m²

HDL 5250
TC HDPE 105 HM 45 -BG FSC

35 ±5 g/m²

High Temperature
Strong Adhesıve Label

Product Code : HDL5250

Product Name : TC HDPE 105 HM 45 -BG FSC

Facestock : White, one-side top-coated matte finished, HIGH DENSITY POLYETHYLENE-crosslaminate, extreme resistance to tear, puncture and tear propagation. It consists of multiple layers of oriented film, extrusion laminated to each other

Basis Weight : 80 g/m² ISO 536

Caliper : 105 µm ISO 534

Adhesive : A special purpose permanent, rubber based adhesive.

Liner : White, a supercalendered glassine paper. The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight : 54 g/m² ISO 536

Caliper : 47 µm ISO 534

Total Caliper : 183 µm±10% ISO 534

Initial Tack : 33 N/25mm FTM 9 Glass

Peel Adhesion 90° : 17 N/25mm FTM 2 St

Service Temperature : -40 °C to 70 °C

Min. Application : Temp. - 5 °C

Adhesive Performance : The aggressive nature of the adhesive provides excellent performance on rough or apolar substrates, as well as at low temperatures.

Applications and Use : The face materials multi-layer structure enables the product to use for applications where high tear resistance is needed. Due to the closed structure, the product is often used as barrier film.
Labels with the aggressive adhesive HM45 are used on rough or difficult substrates, such as rubber goods, shoes, rugs and carpets, as well as on packaging materials like cardboard, wood, fibre drums and plastic containers (e.g. HDPE and Polypropylene drums).

READY TO GET SMARTER
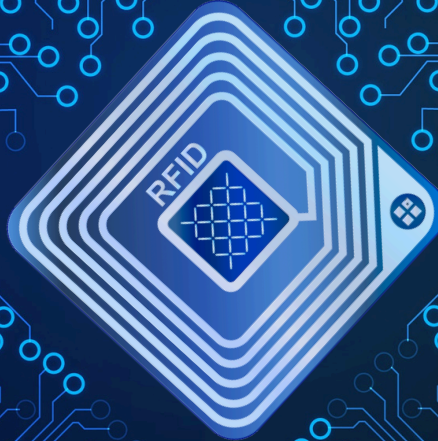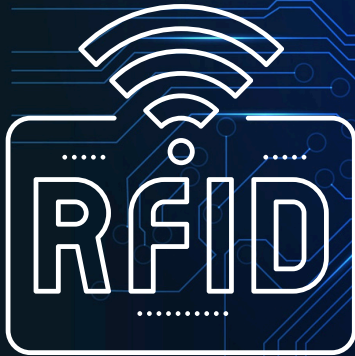
RFID

RFID LABELS

Near Field Communication

HF - NFC TAG

Ultra High Frequency

UHF TAG

On Metal Hard Tag

HARD TAG

Radio Frequency Identification (RFID) is the wireless or contactless transfer of digital identification and additional data between the RFID tag and the reader via electromagnetic waves. This is how physical objects
By tagging, businesses, organisations and consumers can seamlessly identify, verify, track, detect and assign a unique digital identity to interact with each object.

Unlike QR codes and similar Auto-ID technologies, RFID allows tags to be read without being seen from a distance of a few centimetres to 20 metres, depending on the type of RFID system.

-A fixed reader mounted behind the door at the shipping dock can read hundreds of labelled products inside the boxes on the pallet.
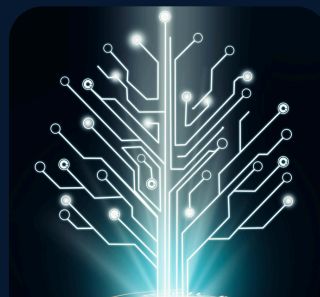-Thousands of products in the store can be counted in seconds by passing the handheld RFID reader over the shelves.
-The authenticity of a luxury bag can be verified by touching the NFC tag with a smartphone.

Sustainability

Traceability

Connection

Security

Sustainability

RFID and Sustainability

In recent years, there has been an increased focus on sustainability and the impact that technology and products have on the environment. RFID technology is no exception, and it has been evaluated for its potential to contribute to a more sustainable future. This section will explore the role of RFID in sustainability, including its impact on materials, manufacturing processes, and end-of-life product recyclability.

Materials: One of the key areas where RFID technology can contribute to sustainability is in the sourcing and use of materials. By increasing the use of certified materials and recycled content, and replacing less sustainable materials such as PET, the carbon footprint of RFID products can be reduced. Additionally, the use of RFID technology can improve supply chain management and visibility, reducing waste and improving efficiency.

Manufacturing: RFID technology can also be beneficial in terms of manufacturing processes. By implementing the best available processes and managing supply chains, the carbon footprint of RFID products can be reduced and the overall sustainability of the manufacturing process can be improved.

End of life: When it comes to end-of-life product recyclability, RFID technology can have a positive impact. It can provide visibility into the recycling chain, allowing for better management of end-of-life products and reducing waste. Also the recyclability of RFID tags and inlays is an important consideration, and it varies by market segment.

Measuring carbon footprint: RFID and IoT solutions can measure the carbon footprint of a product by tracking and collecting data throughout its entire lifecycle. This includes data on the sourcing of materials, energy consumption during the manufacturing process, transportation of goods, and end-of-life disposal. By gathering this information, it is possible to calculate the carbon footprint of the product and identify areas for improvement.

Traceability

RFID and Traceability

RFID technology enables unique identification of objects through an RFID tag or transponder. These tags are placed on products and when detected by a reader device, the information on the tag is read wirelessly. This information can include important information such as the product's identity, serial number, date of manufacture, expiry date.

Traceability with RFID provides benefits in many areas. RFID tags provide traceability at every stage in the supply chain, making it easy to identify which products are where and when. In this way, in the event of a possible contamination or safety breach, the affected products can be quickly identified and removed.

In conclusion, RFID technology is an important tool for traceability and provides many benefits in supply chain management and retail sector. However, privacy and security issues need to be considered with the use of this technology.

Connection

RFID and Connection

RFID (Radio Frequency Identification) is a technology that enables the identification and tracking of objects. Connection is important as a means of communication between these identified objects. RFID and connectivity concepts work together in the Internet of Things (IoT) ecosystem to optimise data flow and business processes.

RFID technology enables objects to be uniquely identified. For example, an RFID tag placed on a product can store information such as the identity, characteristics or location of that product. However, the value of this information increases with the connections between these objects.

Connectivity enables objects identified with RFID to communicate over a network. These connections are usually established through wireless communication technologies. For example, technologies such as Wi-Fi, Bluetooth or mobile networks can be used to enable RFID tags to transfer data.

RFID and connectivity concepts provide great benefits, especially when used together in areas such as logistics, supply chain management and smart cities. In a supply chain example, when products with RFID tags are detected by readers at various points such as warehouses and transport vehicles, this information can be collected in a centralised system via a link. This makes it possible to track products and optimise logistics processes.

Security

RFID and Security

RFID security focuses on the protection of RFID systems against unauthorised access. This can be done using a number of techniques, including the following:

Access Control: Authentication and authorisation can be used to restrict access to RFID readers. This can be done using various methods such as cards, passwords or biometric information.

Data Encryption: Data stored on tags can be encrypted to prevent unauthorised access. This ensures that the data can only be read by authorised readers.

Tag Hiding: Tags can be hidden from readers by covering them with materials such as metal or foil. This helps prevent unintentional reading of tags.

Sending Tags: Tags can be programmed to send data to readers only when activated by authorised persons. This helps prevent the use of counterfeit tags.

Secure Communication: Communication between RFID readers and tags can be protected using encryption or other security protocols to prevent unauthorised eavesdropping.

RFID security is critical in a variety of industries. For example, RFID tags can be used to manage access control, track inventory, and combat counterfeit goods.

What We Produce

RFID Label Production

With our Rfid Application Machine, we apply UHF, HF, NFC chips to Labels that meet the demands of our customers (Size, Surface and Adhesive). We produce Rfid Tags that are company specific; they can be printed, blank or contain variable data.

Printed and Blank Label Production

We offer Printed Labels, Blank Labels and Variable Numerator printed labels to our customers with the highest quality raw materials in the world. We not only produce labels, but also offer solutions.

Lamination and Coating Line

With our Laminating and Coating machine, we make an acrylic-based adhesive version with a width of 114 cm and a silicone coating. We produce special label raw materials according to the needs of our customers by laminating acrylic adhesive options on different top surfaces (Paper, PP, PET, etc.).

Thermal Transfer Ribbon Converting

We cut thermal transfer ribbons imported from Europe to the desired sizes for Barcode Printer and Date coding applications. Our ribbons meet the expectations of the sectors that want specific solutions such as hot, cold, scratch and chemical resistance at the highest level.

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