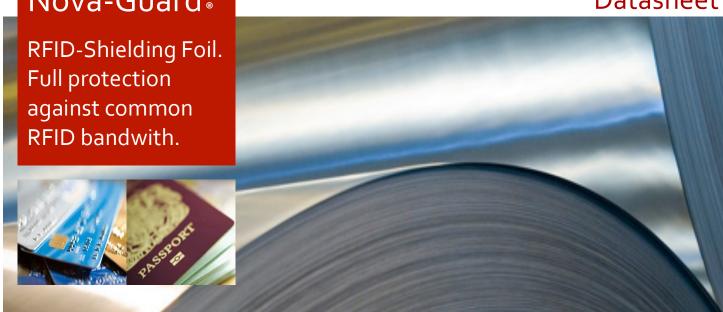
# Nova-Guard®

# Datasheet



The versatile Nova-Guard® RFID Shielding Foil, engineered to protect personal electronic data of payment fraud, electronic pick-pocketing, identity theft for commerical, industrial and security applications.

Many credit, debit cards, passports, identity and access control cards include passive RFID (Radio Frenquency Identification) chips. The chips use to transmit payment information or personal data over short distances to enable "contactless-payments" or personal data transmissions". Nova-Guard® RFID-Shielding Foil, blocks common radio-frequency bandwith from data theft and, fraud in various value-added applications and products.

# Technical specifications

#### Frequency Shielding

SHF 2.45 GHz UHF 433-960 MHz HF/NFC 13.56 MHz LF 125 - 134 KHz

#### Material

PET/Aluminium/PE

#### Thickness

102 μm +/- 10%

#### Composite strength

113 gm<sup>2</sup> +/- 10%

#### Roll width

1000 mm +5% (standard) 200 - 1250 mm +5% mm (upon request)

#### Roll winding

PET (outside) / PE sealing side (inside)

# **NOVADIS GMBH**

Eichtalstrasse 55 CH-8634 Hombrechtikon

#### Sealing temperature

120 - 145 °C (PE/PE)

#### Sealing strength

>30 N/15mm (PE/PE)

## Sealing parameters

 $130^{\circ}$  C / 1 sec. / 5 bar (PE/PE)

#### Tensile strength

40 MPa - length +/- 10% DIN EN ISO 527-1 40 MPa - cross +/- 10% DIN EN ISO 527-1

## Elongation at break

80 - 100 % length DIN EN ISO 527-1 70 - 90 % cross DIN EN ISO 527-1

#### Lamination adhesive

2-component solvent-based adhesive

#### **Applications**

Stationery Leather goods Textile and clothing Packaging and labeling Security Construction Electronic

# **Processing**

Sealing Laminating (Hot/Cold)

## Certificate / Approvals

SGS TÜV Saarland GmbH - Germany

- MILSTD 285
- IEEE 299
- NSA 65-6
- EN50147-1



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