

# Nova-Guard®

# Datasheet

RFID-Shielding Foil.  
Full protection  
against common  
RFID bandwidth.



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

Many credit, debit cards, passports, identity and access control cards include passive RFID (Radio Frequency 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 bandwidth 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 g/m<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

advanced solutions  
Eichtalstrasse 55  
CH-8634 Hombrechtikon

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### Sealing temperature

120 – 145 °C (PE/PE)

### Sealing strength

>30 N/15mm (PE/PE)

### Sealing parameters

130 °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



**For further informations, please contact us:**