**TS Technical Data Sheet**

**Article: BSG556-108-09 EU VISA 2.0 Czech 50.5**

**Product: KINEGRAM®PATCH with KINEGRAM ZERO.ZERO® PRIME technology**

**General Description:**

KINEGRAM®PATCH security element with KINEGRAM ZERO.ZERO® PRIME technology, is an ultra

thin multilayer system containing the unique KINEGRAM® diffraction image and can be applied by

hot-stamping equipment available on the market.

The shape of the diffractive security elements depends on the customer specified die dimension.

**Document Type:**

Paper based VISA security paper. Application tests have to be performed on customer specific paper

substrate.

**Format:**

-> Roll form according to customer specific machine type (hot-stamping equipment)

-> KINEGRAM®PATCH design and shape dimensions according to EU VISA 2.0 specification

and application equipment as attached foil drawing.

**Foil Type:**

Hot-stamping foil

-> partially metalized (KINEGRAM ZERO.ZERO® Technology) state of the art KINEGRAM®

design for EU VISA Type 2.0 solutions

**Thickness:**

Delivered foil: 23 - 27μm (including adhesive layer)

Polyester carriers: 19 μm (without adhesive layer)

KINEGRAM®PATCH: 4-8 μm (applied layer after transfer)

**KINEGRAM ® registration:**

The KINEGRAM® design is integrated in the layers and registered with precision to a specific repeat

using an optical registration mark. The optical registration marks are designed for specific application

equipment.

**Application:**

Patch Application: Heat-transfer, hot stamping by metallic die.

**Application temperature:**

Temperature and speed setting must be adjusted to the customer specific substrate and application

equipment.

**Storage conditions during transport:**

-> Temperature +4°C (39°F) to maximum 40°C (104°F) with a maximum relative humidity of 65%

-> These transport conditions are no to exceed a maximum of 12 days.

-> The material is not to be exposed to direct sunlight.

**Storage conditions during storage:**

ln order to assure optimal quality of the KINEGRAM®-material, it is necessary to store the products in

closed, original boxes without additional pressure.

-> Temperature range 10 to 20°C (50 - 68°F) with a maximum relative humidity of 60%

-> The material is not to be exposed to direct sunlight

-> ln order to assure proper application, the KINEGRAM® must be used or applied to the

substrate within a period of 12 months of the delivery date. This holds true only when the

KINEGRAM® material is stored under the above conditions.

lf you have to unpack the material in a warehouse, roll material should be stored flat on their side.

Rolls can be stacked on top of each other to a maximum stack height of not more than 50 cm high.

Within each stack there must be a partition (carton, plastic) between each foil roll.

The information contained herein relates only to the specific material identified. The information is given according to our best

knowledge and experience as the date or this Data Sheet. The receiver of this information ls urgently requested to make his

own determination as to the information is suitability for his particular application. This document and its contents are

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**Roll specification**

**BSG556-108-09 EU** VISA **2.0** Czech **50.5**

Core diameter: 1 inch plastic core, 25.4mm +/- 0.3mm

Core width: 40mm +/- 0.5mm

Maximum reel diameter: (for informal use only max. 75mm)

Foil width: 40mm +/- 0.5mm

Elements per roll: 2000 pcs

Picture repeat: 50.5mm +/- 0.2mm

Unwind direction: Foot first, adhesive on inner side

Leader: 5m transparent polyester foil

Tail: 5m transparent polyester foil

Amount of splices: 0

Divisibility, number of rolls: 4

(needed on application equipment)

Optical registration marks: 5x5mm on both sides of the picture

Spatial frequency, 1070 I/mm

Orientation, 90 degrees to foil direction according to drawing

**Foil drawing**

**BSG556-108-09 EU VISA 2.0 Czech 50.5**

**Obsah obrázku diagram

Popis byl vytvořen automaticky**

**Layout BSG556-108-09, page 7**