Certificate

No.4494-2015-41.110-1

Applicant: **Pentel Bürobedarfshandelsgesellschaft mbH**
Lademannbogen 143
22339 Hamburg

Papiertechnische Stiftung (PTS) hereby certifies the testing of Gel Ink Rollers in the colour Black submitted by the applicant and designated by the product names

EnerGel Gel Ink Roller, filled with refill LRP7-A,writing width 0.35 mm
EnerGel Gel Ink Roller, filled with refill LRP5-A,writing width 0.25 mm

according to DIN ISO 27668-2: 2009 on the following properties:

Non-erasability
Resistance to ethanol
Resistance to hydrochloric acid
Resistance to ammonia
Bleach resistance
Water resistance
Light fastness

According to the test results of the lines produced with the said black Gel Ink Rollers (see PTS-Test Report No. 41.110-1 dated 2015-04-09)

EnerGel Gel Ink Roller, filled with refill LRP7-A, writing width 0.35mm/ball diameter 0.7mm
EnerGel Gel Ink Roller, filled with refill LRP5-A, writing width 0.25mm/ball diameter 0.5mm

meet the requirements of the properties mentioned above according to ISO 27668-Part 2:2009.

The tested products are suitable for documentary use.

Papiertechnische Stiftung (PTS)
PTS – Testing Service Document Testing

Heidenau, 13 April 2015

S. Pensold

Dipl.-Ing. Sabine Pensold
Head of laboratory material testing

W. Knapp

Waltraud Knapp
Product manager

Certificate

No.4495-2015-41.110-2

Applicant: **Pentel Bürobedarfshandelsgesellschaft mbH**
Lademannbogen 143
22339 Hamburg

Papiertechnische Stiftung (PTS) hereby certifies the testing of Gel Ink Rollers in the colour Red submitted by the applicant and designated by the product names

EnerGel Gel Ink Roller, filled with refill LRP7-B ,writing width 0.35 mm
EnerGel Gel Ink Roller, filled with refill LRP5-B ,writing width 0.25 mm

according to DIN ISO 27668-2: 2009 on the following properties:

Non-erasability
Resistance to ethanol
Resistance to hydrochloric acid
Resistance to ammonia
Bleach resistance
Water resistance
Light fastness

According to the test results of the lines produced with the said red Gel Ink Rollers (see PTS-Test Report No. 41.110-1 dated 2015-04-09)

EnerGel Gel Ink Roller, filled with refill LRP7-B, writing width 0.35mm/ball diameter 0.7mm
EnerGel Gel Ink Roller, filled with refill LRP5-B, writing width 0.25mm/ball diameter 0.5mm

meet the requirements of the properties mentioned above according to ISO 27668-Part 2:2009.

The tested products are suitable for documentary use.

Papiertechnische Stiftung (PTS)
PTS – Testing Service Document Testing

Heidenau, 13 April 2015

Dipl.-Ing. Sabine Pensold
Head of laboratory material testing

Waltraud Knapp
Product manager

Certificate

No.4496-2015-41.110-3

Applicant: **Pentel Bürobedarfshandelsgesellschaft mbH**
Lademannbogen 143
22339 Hamburg

Papiertechnische Stiftung (PTS) hereby certifies the testing of Gel Ink Rollers in the colour Blue submitted by the applicant and designated by the product names

EnerGel Gel Ink Roller, filled with refill LRP7-C ,writing width 0.35 mm
EnerGel Gel Ink Roller, filled with refill LRP5-C ,writing width 0.25 mm

according to DIN ISO 27668-2:2009 on the following properties:

Non-erasability
Resistance to ethanol
Resistance to hydrochloric acid
Resistance to ammonia
Bleach resistance
Water resistance
Light fastness

According to the test results of the lines produced with the said blue Gel Ink Rollers (see PTS-Test Report No. 41.110-1 dated 2015-04-09)

EnerGel Gel Ink Roller, filled with refill LRP7-C, writing width 0.35mm/ball diameter 0.7mm
EnerGel Gel Ink Roller, filled with refill LRP5-C, writing width 0.25mm/ball diameter 0.5mm

meet the requirements of the properties mentioned above according to ISO 27668-Part 2:2009.

The tested products are suitable for documentary use.

Papiertechnische Stiftung (PTS)
PTS – Testing Service Document Testing

Heidenau, 13 April 2015

Dipl.-Ing. Sabine Pensold
Head of laboratory material testing

Waltraud Knapp
Product manager