



Test Report

No.T32620300315SN

Date: May 11, 2026

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PENTEL BUEROBEDARFHANDELSGES. MBH

LADEMANNBOGEN 143, 22339 HAMBURG, GERMANY – VAT NO. DE 118678393

The following samples were submitted and identified by/on behalf of the client as:

ENERGEL DOCUMENT REFILL

Case No. : CA326203018179
Style/Item No. : LRP7-A
Packaging Material : CARTON BOX
Manufacturer : PENTEL
Country of Origin : JAPAN
Sample Receiving Date : APR 23, 2026
Testing Period : APR 23 TO MAY 11, 2026

Test Requested	Conclusion
Erasure resistance	PASS
Ethanol resistance	PASS
Hydrochloric acid resistance	PASS
Ammonium hydroxide resistance	PASS
Bleaching resistance	PASS
Water resistance	PASS
Light resistance	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.

Yeung Wei Ching, Crystal
Technical Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Test Results:

Test Property	Test Method	Test Principle / Requirements	Result/Actual finding
Erasure resistance	ISO 27668-2:2009, Clause 4.2	Keep a fresh machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 10 min (to allow to dry), and then erase a portion of line with the eraser specified in ISO 27668-1:2009, 5.3. Examine the surface of the erased section of the paper. Requirements: The surface of the testing paper shall show clear evidence of damage before the line is rendered invisible after above test.	PASS Clear evidence of damage before the line is rendered invisible after above test.
Ethanol resistance	ISO 27668-2:2009, Clause 4.3	Keep a machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 1 h (to allow to dry), and then immerse in the ethanol solution specified in 5.2.1 for 10 min. Remove and allow to air dry. Examine the written line. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.
Hydrochloric acid resistance	ISO 27668-2:2009, Clause 4.4	Keep a machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 1 h (to allow to dry), then immerse in the hydrochloric acid solution specified in 5.2.2 for 24 hours. Remove and immerse in distilled water or de-ionized water for 10 min and allow to air dry. Examine the written line. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.

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Test Property	Test Method	Test Principle / Requirements	Result/Actual finding
Ammonium hydroxide resistance	ISO 27668-2:2009, Clause 4.5	Keep a machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 1 h (to allow to dry), then immerse in the ammonium hydroxide solution specified in 5.2.3 for 24 hours. Remove and immerse in distilled water or de-ionized water for 10 min and allow to air dry. Examine the written line. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.
Bleaching resistance	ISO 27668-2, Clause 4.6	Keep a machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 10 min (to allow to dry), then immerse in the bleaching solution specified in 5.2.4 for 5 min. Remove and immerse in distilled water or de-ionized water for 10 min and allow to air dry. Examine the written line of the test piece. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.
Water resistance	ISO 27668-2:2009, Clause 4.7	Keep a machine-written test piece approximately 5 cm long from the sheet provided in 6.1.3 under the climatic conditions specified in 6.1.2 for 1 h (to allow to dry), and then immerse in the distilled water or de-ionized water for 24 hours. Remove and allow to air dry. Examine the written line. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.

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Test Property	Test Method	Test Principle / Requirements	Result/Actual finding
Light resistance	ISO 27668-2:2009, Clause 4.8	Prepare a machine-written test piece approximately 5 cm long, without the beginning and the end of the written line provided by the previous writing performance test. Expose the test piece together with the blue wool references to the light source of the light test apparatus with reference to ISO 105-B02. Until the contrast between the unexposed and the exposed blue wool reference 5 becomes equal to grey scale grade 4 specified in ISO 105-A02. Requirements: The line shall remain visible after test.	PASS The line remains visible after test.

Sample Photo:


SGS authenticate the photo on original report only

*** End of Report ***

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