

Test Report No. 7191205695-EEC19/02-WBH_CR2
(re-issue dated: 14 May 2019)
dated 26 Apr 2019



PSB Singapore

**Add value.
Inspire trust.**

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

SUBJECT:

Testing of leather submitted by Secretlab SG Pte Ltd on 21 Feb 2019 and 26 Mar 2019.

TESTED FOR:

Secretlab SG Pte Ltd
994 Bendemeer,
03-07,
Singapore 339943.

TEST DATE:

01 Apr 2019 to 05 Apr 2019

DESCRIPTION OF SAMPLES:

S/N	Sample Description	Samples Received	Date Received
1	Regular PU Leather	1 piece (130cm x 145cm)	21 Feb 2019
2	PRIME 2.0 PU Leather	1 piece (150 cm X 100 cm)	26 Mar 2019

Amendments:

The following amendments were made on 03 May 2019 and 14 May 2019 respectively:
The Sample Description under "DESCRIPTION OF SAMPLES" was amended as requested by client.
The "RESULTS" was amended to include more data as requested by client.



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV[®]

Test Report No. 7191205695-EEC19/02-WBH_CR2

(re-issue dated: 14 May 2019)

dated 26 Apr 2019



PSB Singapore

METHOD OF TEST:

As agreed by the client, the test was conducted in accordance with the following method:

1. Prepare Sodium Hydroxide Solution (10%) by slowly dissolving 100g of Sodium Hydroxide in 1000ml of water.
2. For each type of leather, 4 specimens shall be used for 30 mins immersion period.
3. Place the specimens in containers with Sodium Hydroxide Solution (10%) and allow the specimens to be totally immersed in the reagent for 30 mins in the standard laboratory atmosphere of 23 ± 2 °C and 50 ± 10 % relative humidity.
4. After 30 mins, remove each specimen from the reagent, wipe them dry with a tissue and observe the surface of each specimen after exposure to the chemical reagent.
5. Observe and report appearance on the basis of examination for evidence of leather peeling, discoloration, cracking etc.
6. Condition the samples in humidity chamber as reference to ASTM D3690-02 Standard Performance Specification for Vinyl-Coated and Urethane-Coated Upholstery Fabrics – Indoor Clause 6.11 Hydrolytic stability (for chamber conditioning only)
 - Chamber conditioning : 70°C and 95% RH
 - Duration : 4 days

RESULTS:

Test	Observation		
	Regular PU Leather	PRIME 2.0 PU Leather	
Immersion Test in Sodium Hydroxide Solution (10%) - After 30 mins	No damage was observed.		
Chamber Conditioning (70°C and 95% RH)	After 1 day	Significant delamination of leather (peeling) was observed.	No delamination of leather (peeling) was observed.
	After 2 days	Significant delamination of leather (peeling) was observed.	No delamination of leather (peeling) was observed.
	After 3 days	Significant delamination of leather (peeling) was observed.	No delamination of leather (peeling) was observed.
	After 4 days	Significant delamination of leather (peeling) was observed.	No delamination of leather (peeling) was observed.

REMARK:

Lee Dai Yi
Engineer

Wong Bee Hui
Product Manager
Consumer Products

APPENDIX:

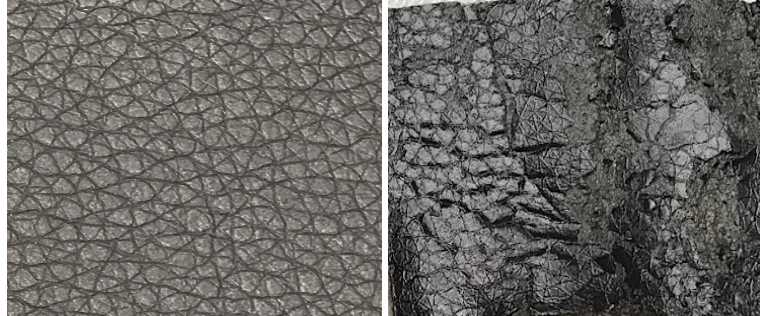


Photo 1: Regular PU Leather
Left: As received on 21 Feb 2019
Right: After Immersion Test and Chamber Conditioning



Photo 2: PRIME 2.0 PU Leather
Left: As received on 26 Mar 2019
Right: After Immersion Test and Chamber Conditioning

Test Report No. 7191205695-EEC19/02-WBH_CR2
(re-issue dated: 14 May 2019)
dated 26 Apr 2019



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

