

# REPORT No 11154

*Date of issue: August 20, 2025*

**Status: FINAL REPORT**

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## ISO 15184

### DETERMINATION OF FILM HARDNESS BY PENCIL TEST

#### Program: SQ-2048.V2

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<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>
<b>Berenice Ferrel</b> Assistant Technician	<b>Lic. Esther Casas</b> Physics expert	<b>Eng. Emiliano Medina</b> Quality Assurance Lead

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## 1. FOREWORD

This report summarizes the results of the **SQ-2048.V2** proficiency testing program on the determination of film hardness by pencil test. This program is conducted in a bilateral format, following the A.3.3 classification of the ISO 17043 standard ("Split-sample testing schemes").

**South Quality** conducted the testing program in May 2025 with the aim of assessing the laboratory's ability to competently perform the designated tests.

## 2. ORGANIZATION

Program Coordinator: Lic. Esther Casas  
 Assistant Technician: Berenice Ferrel  
 Statistic: Lic. Manuel Tozaki  
 Supervision: Eng. Emiliano Medina

## 3. OBJECTIVE

The objective of this proficiency testing program is to determine of film hardness by pencil test using the following standard:

Standard
ISO 15184: 2020

To verify this, batches of painted sheet samples have been selected.

Participants in this program have not been previously informed about the expected behavior of the samples they receive.

## 4. PARTICIPANT

Company: **SGS (Thailand) Limited**  
 Laboratory: **Eastern Seaboard Industrial Estate**  
 Country: Thailand  
 Client ID: S351  
 Contact person: Chutikarn Pittayapornpong  
 QA Coordinator  
[Chutikarn.Pittayapornpong@sgs.com](mailto:Chutikarn.Pittayapornpong@sgs.com)

## 5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO Guide 35: 2017, clause 7.4.1.2. Stratified random sampling was employed, and samples were chosen using random number generation software.

The results of this test are presented below:

Size of each batch: **50 units**

Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LPA2076	BATCH: LPA2077	BATCH: LPA2078
FILM HARDNESS	YES	YES	NO

Size of each batch: **50 units**

Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LPA2304	BATCH: LPA2305	BATCH: LPA2306
FILM HARDNESS	YES	YES	NO

Size of each batch: **50 units**

Tested samples from each batch: **10 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LPA2494	BATCH: LPA2495	BATCH: LPA2496
FILM HARDNESS	NO	YES	YES

Samples for this program are taken from the selected batches identified as LPA2077, LPA2304 and LPA2496.

For the indicated batches, the values determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

## 6. SAMPLE INFORMATION

The following samples were sent for testing:

Batch:	LPA2077
Sample ID:	08
Characteristics:	White plate

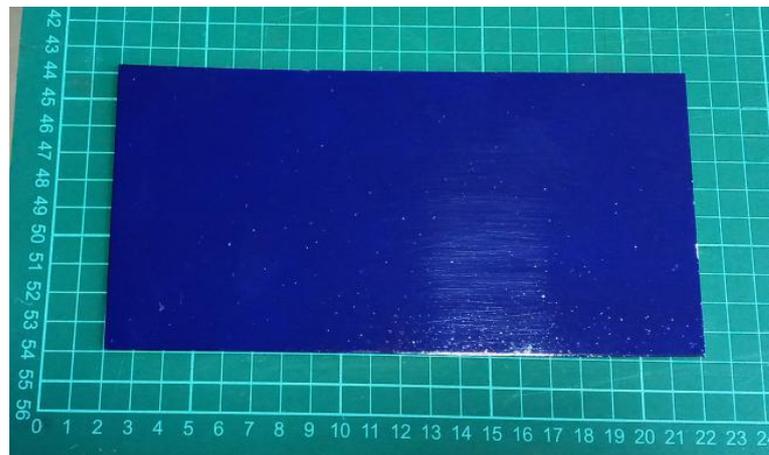
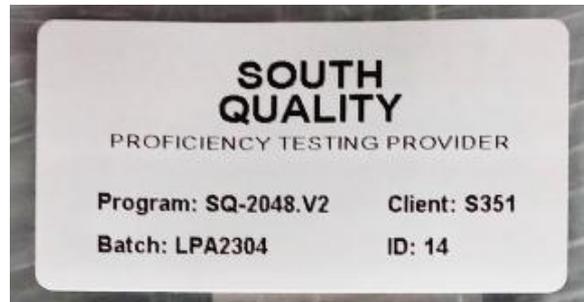
Batch:	LPA2304
Sample ID:	14
Characteristics:	Black plate

Batch:	LPA2496
Sample ID:	05
Characteristics:	Blue plate

## 7. IMAGES



## SAMPLES



## 8. ASSIGNED VALUES

BATCH	PENCIL HARDNESS
LPA2077	2H
LPA2304	8H
LPA2496	B

## 9. PARTICIPANT RESULTS (SEE APPENDICES B, C AND D)

CODE	PENCIL HARDNESS
LPA2077-08	2H
LPA2304-14	8H
LPA2496-05	B

## 10. STATISTICS

The results must be treated as qualitative.

For qualitative results, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

## 11. EVALUATION OF PERFORMANCE

BATCH	PENCIL HARDNESS		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
LPA2077	2H	2H	SATISFACTORY
LPA2304	8H	8H	SATISFACTORY
LPA2496	B	B	SATISFACTORY

## 12. CONCLUSIONS

The overall performance of this **SQ-2048.V2** program from the participant laboratory **SGS (THAILAND) LIMITED - EASTERN SEABOARD INDUSTRIAL ESTATE**, is **SUFFICIENT** based on expected results.

The criteria used for evaluating the overall performance are as follows:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

# APPENDIX A

## INSTRUCTIVE



# INSTRUCTIVE

<b>PROGRAM:</b>	DETERMINATION OF FILM HARDNESS BY PENCIL TEST
<b>CODE:</b>	SQ-2048
<b>VERSION:</b>	2
<b>STANDARD:</b>	ISO 15184
<b>COORDINATOR:</b>	Lic. Esther Casas ( <a href="mailto:ecasas@ptsouthquality.com">ecasas@ptsouthquality.com</a> )

**1 - General**

This document is a guide for managing the results of the **SQ-2048.V2** program.

**2 - Standard**

**ISO 15184: 2020**

**3 - Tests involved**

TEST
Determination of film hardness by pencil test

**4 - Samples**

CODE	SAMPLE	QUANTITY
LPA2077-08	White plate	1
LPA2304-14	Black plate	1
LPA2496-05	Blue plate	1

**5 - Notes**

- a) Being a bilateral program there is no deadline to accomplish sending results.
- b) Participants must submit the results in the usual report used by their laboratory.
- c) The samples must be kept until the end of the program, which closes with the submission of the final report.
- d) To review the results, sending images of the tests will be appreciated. Images can be attached to the end of this document or inserted into your regular report.

**PHOTOGRAPHS**

# APPENDIX B

## PARTICIPANT RESULTS (TEST REPORT # 6218984)



**Test Report No.** 6218984

Date : 16-May-2025

Page 1 of 5

**Client : PT South Quality SAS  
 Pareja 3981 - Villa Devoto Buenos Aires Argentina**

The following sample(s) was/were submitted and identified by client as:

 Sample Name : LPA2077-08 White plate  
 Sample Code/Reference : SQ-2048.V2

The following sample(s) was/were identified by SGS as:

 SGS Sample No. : 6551967  
 Sample Condition : Sample is suitable for testing.  
 Quantity Submitted : 1 pc  
 Sample Receiving Date : 7-May-2025  
 Testing Period : 08-May-2025 to 16-May-2025

Test Method &amp; Results : Please refer to next page(s).

**Signed for and on behalf of  
 SGS (Thailand) Ltd.**

**Jaturong Thirachitto  
 Senior Technical Engineer**

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**Test Report No.** 6218984

**Date :** 16-May-2025

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**TEST RESULTS**

**PAINTS AND VARNISHES - DETERMINATION OF FILM HARDNESS BY PENCIL TEST :**

**Test method**

ISO 15184 Third edition 2020-01

**Test condition**

Preconditioning at 23 degree celsius and 50% RH for 24 hours.

Test conduct at the same condition.

Pencil : Mitsubishi uni pencil

Load : 750 gram.

**Test result**

Pencil hardness : 2H.

Note : Test performed as per conditions given by the client.

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**Date :** 16-May-2025

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**Date :** 16-May-2025

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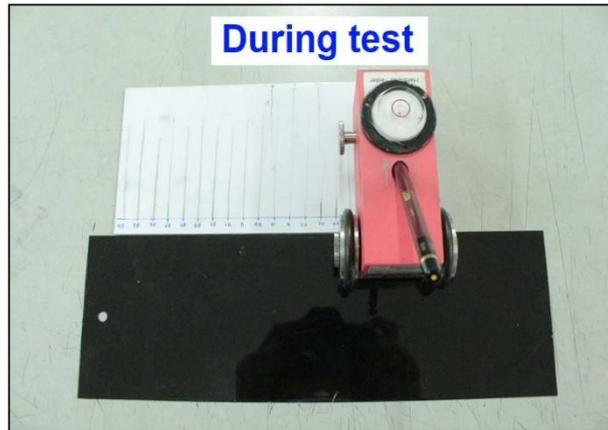


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# APPENDIX C

## PARTICIPANT RESULTS (TEST REPORT # 6218983)




**Test Report No.** 6218983

**Date** : 16-May-2025

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**Client** : PT South Quality SAS  
 Pareja 3981 - Villa Devoto Buenos Aires Argentina

The following sample(s) was/were submitted and identified by client as:

**Sample Name** : LPA2304-14 Black plate  
**Sample Code/Reference** : SQ-2048.V2

The following sample(s) was/were identified by SGS as:

**SGS Sample No.** : 6551968  
**Sample Condition** : Sample is suitable for testing.  
**Quantity Submitted** : 1 pc  
**Sample Receiving Date** : 7-May-2025  
**Testing Period** : 08-May-2025 to 16-May-2025

**Test Method & Results** : Please refer to next page(s).

**Signed for and on behalf of**  
**SGS (Thailand) Ltd.**



**Jaturong Thirachitto**  
 Senior Technical Engineer

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**Test Report No.** 6218983

**Date :** 16-May-2025

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**TEST RESULTS**

**PAINTS AND VARNISHES - DETERMINATION OF FILM HARDNESS BY PENCIL TEST :**

**Test method**

ISO 15184 Third edition 2020-01

**Test condition**

Preconditioning at 23 degree celsius and 50% RH for 24 hours.

Test conduct at the same condition.

Pencil : Mitsubishi uni pencil

Load : 750 gram.

**Test result**

Pencil hardness : 8H.

Note : Test performed as per conditions given by the client.

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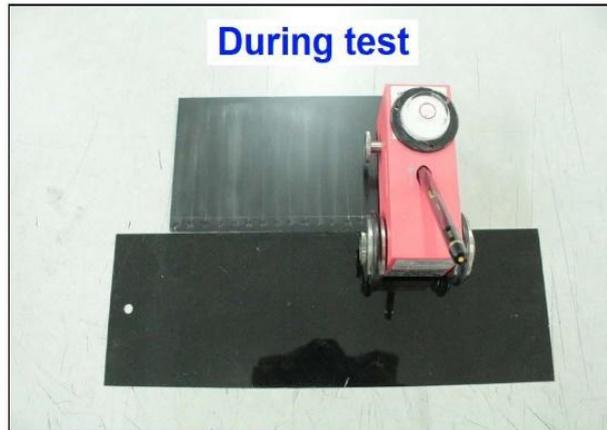


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# APPENDIX D

## PARTICIPANT RESULTS (TEST REPORT # 6218981)



**Test Report No.** 6218981

**Date :** 16-May-2025

**Page 1 of 5**
**Client :** PT South Quality SAS  
 Pareja 3981 - Villa Devoto Buenos Aires Argentina

The following sample(s) was/were submitted and identified by client as:

 Sample Name : LPA2496-05 Blue plate  
 Sample Code/Reference : SQ-2048.V2

The following sample(s) was/were identified by SGS as:

 SGS Sample No. : 6551969  
 Sample Condition : Sample is suitable for testing.  
 Quantity Submitted : 1 pc  
 Sample Receiving Date : 7-May-2025  
 Testing Period : 08-May-2025 to 16-May-2025

Test Method &amp; Results : Please refer to next page(s).

**Signed for and on behalf of**  
**SGS (Thailand) Ltd.**

**Jaturong Thirachitto**  
 Senior Technical Engineer

5920694

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**TEST RESULTS**

**PAINTS AND VARNISHES - DETERMINATION OF FILM HARDNESS BY PENCIL TEST :**

**Test method**

ISO 15184 Third edition 2020-01

**Test condition**

Preconditioning at 23 degree celsius and 50% RH for 24 hours.

Test conduct at the same condition.

Pencil : Mitsubishi uni pencil

Load : 750 gram.

**Test result**

Pencil hardness : B.

Note : Test performed as per conditions given by the client.

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**SAMPLE/ATTACHMENT PICTURE**



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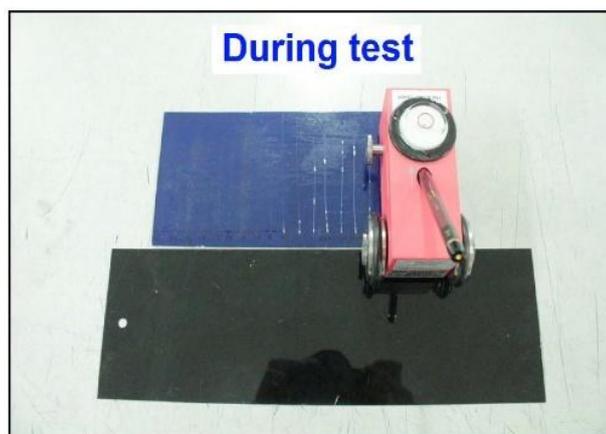


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