SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 12103

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Status: FINAL REPORT

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ISO 3801

TEXTILES - WOVEN FABRICS DETERMINATION OF MASS PER UNIT LENGTH AND MASS PER UNIT AREA

Program: SQ-1071.V4

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TABLE OF CONTENTS

1. **FOREWORD** 3

2. **ORGANIZATION** 3

3. **OBJECTIVE** 3

4. **PARTICIPANT** 3

5. **HOMOGENEITY** 4

6. **SAMPLE INFORMATION** 5

7. **IMAGES** 5

8. **ASSIGNED VALUES** 6

9. **PARTICIPANT RESULTS** 7

10. **STATISTICS** 7

11. **EVALUATION OF PERFORMANCE** 7

12. **CONCLUSIONS** 8

APPENDICES

APPENDIX A - INSTRUCTIONS 9

APPENDIX B - PARTICIPANT RESULTS (TR # MEXT26007868) 12

1. FOREWORD

This report summarizes the results of the **SQ-1071.V4** proficiency testing program on the determination of mass of woven fabrics (method 5). This program is conducted in a bilateral format, following the “split-sample” design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

South Quality conducted the testing program in September 2026 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
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine the mass of woven fabrics, in accordance with the following standard:

Standard
ISO 3801: 1977 (Method 5)

To verify this, batches of woven fabrics samples were selected.

Participants in this program have not been previously informed about the expected values or value ranges of the samples they receive.

4. PARTICIPANT

Company:	**Intertek Testing Services de México**
Laboratory:	**Intertek Testing Services de México**
Country:	Mexico
Client ID:	C100
Contact person:	Jacquelin Jiménez Quality Coordinator jacquelin.jimenez@intertek.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 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **50 units** Tested samples from each batch: **5 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3722	BATCH: LT3723	BATCH: LT3724
Mass per unit of area	YES	YES	NO

Size of each batch: **50 units** Tested samples from each batch: **5 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4729	BATCH: LT4730	BATCH: LT4731
Mass per unit of area	YES	YES	YES

Size of each batch: **50 units** Tested samples from each batch: **5 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4805	BATCH: LT4806	BATCH: LT4807
Mass per unit of area	NO	YES	NO

Samples for this program are taken from the selected batches identified as **LT3722**, **LT4729** and **LT4806**.

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:	LT3722
Sample ID:	09
Characteristics:	Denim fabric - 50 x 50 cm

Batch:	LT4729
Sample ID:	04
Characteristics:	Beige fabric - 50 x 50 cm

Batch:	LT4806
Sample ID:	06
Characteristics:	Beige fabric (Leaf print) - 50 x 50 cm

7. IMAGES

SAMPLES





SAMPLES


LT4729-04


SOUTH
QUALITY
PROFICIENCY TESTING PROVIDER
Program: SQ-1071.V4
Client: C100
Batch: LT4729
ID: 04


LT4806-06


SOUTH
QUALITY
PROFICIENCY TESTING PROVIDER
Program: SQ-1071.V4
Client: C100
Batch: LT4806
ID: 06

8. ASSIGNED VALUES

BATCH	MASS PER UNIT OF AREA (g/m²)	
	AVG	SD
LT3722	280	1.06
LT4729	160	0.64
LT4806	172	0.69

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	MASS PER UNIT OF AREA (g/m²) AVG
LT3722-09	278
LT4729-04	161
LT4806-06	171

10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using z **score.**

$$z = \frac{x - X}{\hat{\sigma}}$$

x is the participant's result

X is the assigned value

$\hat{\sigma}$ is the standard deviation

The performance evaluation of each sample is carried out with the following criteria:

$|z| \leq 2.0$ indicates "satisfactory" performance and generates no signal;

$2.0 < |z| < 3.0$ indicates "questionable" performance and generates a warning signal;

$|z| \geq 3.0$ indicates "unsatisfactory" performance and generates an action signal;

11. EVALUATION OF PERFORMANCE

MASS PER UNIT OF AREA - AVG (g/m^2)				
BATCH	PARTICIPANT RESULT	ASSIGNED VALUE	| z score |	PERFORMANCE RESULT
LT3722	278	280	**1.47**	**SATISFACTORY**
LT4729	161	160	**1.13**	**SATISFACTORY**
LT4806	171	172	**1.39**	**SATISFACTORY**

12. CONCLUSIONS

The overall performance on this **SQ-1071.V4** program from the participant laboratory **Intertek Testing Services de México** is **SUFFICIENT** based on expected results.

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

- **SUFFICIENT** performance: No unsatisfactory/questionable results were obtained.
- **ALMOST SUFFICIENT** performance: No unsatisfactory results were obtained, but one questionable result was found.
- **INSUFFICIENT** performance: An unsatisfactory result or two questionable results were obtained.

APPENDIX A

INSTRUCTIONS

INSTRUCTIONS

PROGRAM:	Textiles - Woven fabrics Determination of mass per unit length and mass per unit area
CODE:	SQ-1071
VERSION:	4
STANDARD:	ISO 3801
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-1071.V4** program.

2 - Standard

ISO 3801: 1977

3 - Tests involved

TEST
Determination of mass of woven fabrics (Method 5)

4 - Samples

CODE	SAMPLE	QUANTITY
LT3722-09	Denim fabric - 50 x 50 cm	1
LT4729-04	Beige fabric - 50 x 50 cm	1
LT4806-06	Beige fabric (Leaf print) - 50 x 50 cm	1

5 - Notes

a) Being a bilateral program, there is no deadline for submitting results.
b) The participant must submit the results using the usual report employed by their laboratory.
c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ISO 3801**.
d) Samples must be retained until the end of the program, which concludes with the submission of the final report.
e) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # MEXT26007868)

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Report Number : MEXT26007868

Sample as received



Intertek Testing Services de México, S.A. de C.V.
Poniente 134 No. 660, Col. Industrial Vallejo, Del. Azcapotzalco, C.P. 2300, Ciudad de México
Tel. +52 (55) 5063 7190, Tel. +52 (55) 5998 0900

intertek
Total Quality. Assured.

TEST REPORT

NUMBER : MEXT26007868
DATE : 09-Sep-2026

APPLICANT : **Intertek Testing Services de Mexico, S.A. de C.V.**
Poniente 134 No. 660, Col. Industrial Vallejo, Del.
Azcapotzalco, D.F., 02300, México

Sample Description	:	A)Denim fabric - 50 x 50 cm B) Beige fabric - 50 x 50 cm C) Beige fabric (Leaf print) - 50 x 50 cm
Fiber Content	:	Not Submitted
Color	:	(A)Denim fabric, (B)Beige fabric, (C)Beige fabric (Leaf print)
Style No.	:	LT3722-09 LT4729-04 LT4806-06
Order No./PO No.	:	-
Buyer Name	:	SELF REFERENCE
Other Information	:	SQ-1071 versión 4
Sample Received Date	:	03 Sep 2026
Final Confirmation Received Date	:	-

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

AUTHORIZED BY
FOR Intertek Testing Services de México, S.A. de C.V. [MX CG DF SOFTLINES]

OSCAR PUEBLITA ORTEGA
SUBGERENTE LABORATORIO

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TEST REPORT

NUMBER : MEXT26007868
DATE : 09-Sep-2026

CONCLUSION :

	(A)	(B)	(C)
Determination of Mass per Unit Length and Mass per Unit Area	*	*	*

Note: P = Pass F = Fail
* = Requirement Not Provided NA = Not Applicable # = See Test

NOTE :

Specimens were conditioned according to standard practice for conditioning and testing ISO 139 textiles (20 +/-2°C 65 +/-4% relative humidity) as appropriate.

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Intertek Testing Services de México, S.A. de C.V.
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TEST REPORT

NUMBER : MEXT26007868
DATE : 09-Sep-2026

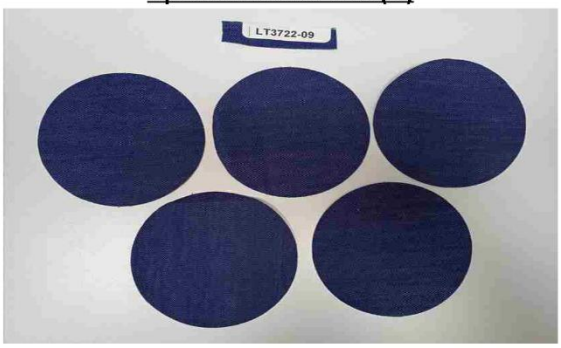
TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Determination of Mass per Unit Length and Mass per Unit Area
ISO 3801, 1977

	(A)	Requeriment
Specimen 1	277.0	-
Specimen 2	279.8	-
Specimen 3	277.3	-
Specimen 4	279.0	-
Specimen 5	279.1	-
Average	278 g/m²	-

	(B)	(C)	Requeriment
Specimen 1	160.6	171.4	-
Specimen 2	161.5	170.6	-
Specimen 3	160.6	171.9	-
Specimen 4	161.2	170.0	-
Specimen 5	159.7	171.3	-
Average	161 g/m²	171 g/m²	

Specimen after test (A)



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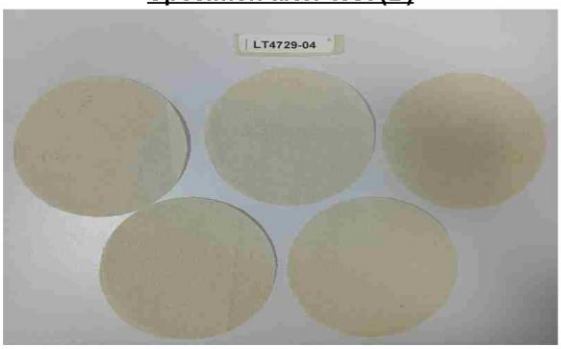
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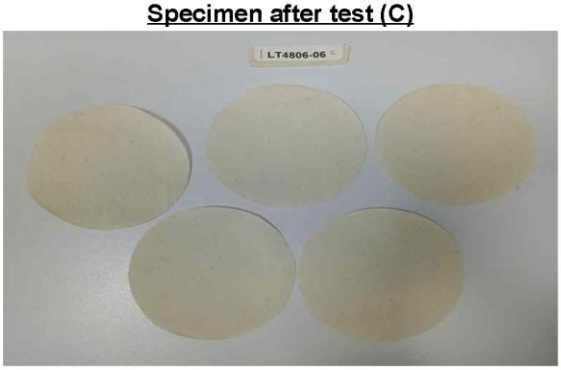
TEST REPORT

NUMBER : MEXT26007868
DATE : 09-Sep-2026

Specimen after test (B)



Specimen after test (C)



END OF THE TEST REPORT

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