SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 11317

Date of issue: *August 13, 2025*

Status: FINAL REPORT

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CEN/TR 16792

SAFETY OF CHILDREN'S CLOTHING RECOMMENDATIONS FOR THE DESIGN AND MANUFACTURE OF CHILDREN'S CLOTHING - MECHANICAL SAFETY -

Program: SQ-1061.V2

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cn=BERENICE C. FERREL, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=tech@ptsouthquality.com, c=AR 2025.08.13 16:03:40 -03'00'	cn=ESTHER CASAS, o=PT SOUTH QUALITY SAS, ou=SOUTH QUALITY, email=ecasas@ptsouthquality.com, c=AR 2025.08.15 10:19:55 -03'00'	cn=Emiliano Medina, o=SOUTH QUALITY, ou=PT SOUTH QUALITY SAS, email=quality@ptsouthquality.com, c=ES 2025.08.15 16:40:33 -03'00'
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1. FOREWORD

This report summarizes the results of the **SQ-1061.V2** proficiency testing program for verification of mechanical safety of children's clothing. 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 July 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 the following parameters of children's clothing:

- Removal force
- Changes occurred / failures

These parameters are verified using the following standard:

Standard
CEN/TR 16792: 2014

To verify this, batches of garments have been chosen.

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 TEST HIZMETLERİ A.S**

Laboratory: **INTERTEK-TEXTILE LABORATORY**

Country: Turkey

Client ID: S335

Contact person: Kübra Doğan Güngel
Quality Specialist
kubra.dogan@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 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: **20 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT2950	BATCH: LT2951	BATCH: LT2952
Changes occurred / failures (CEN/TR 16792 - Annex C)	NO	YES	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT3119	BATCH: LT3120	BATCH: LT3121
Removal force (CEN/TR 16792 - Annex B)	YES	YES	NO

The samples for this program are taken from the selected batches identified as LT2952, and LT3119.

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

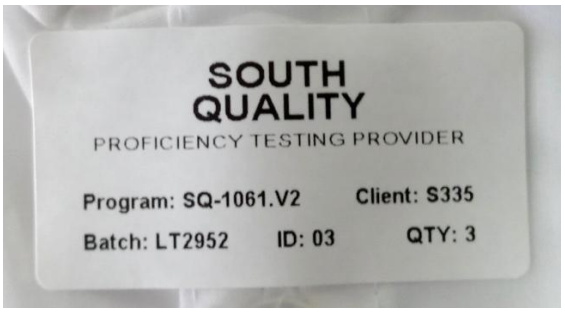
The following samples were sent for testing:

Batch:	LT2952
Sample ID:	03
Characteristics:	White baby shirt - Size 1 - Sewn buttons - 3 units

Batch:	LT3119
Sample ID:	05
Characteristics:	Light blue baby bodysuit - Size 0 - Press fasteners - 3 units

7. IMAGES

SAMPLES



8. ASSIGNED VALUES

BATCH: LT2952	
DETERMINATION	**RESULT**
Changes occurred / failures (CEN/TR 16792 - Annex C)	No change

BATCH: LT3119		
DETERMINATION	**MEASURED FORCE (N)**	**SD**
Removal force - Male button (CEN/TR 16792 - Annex B)	83.06	1.48
Removal force - Female button (CEN/TR 16792 - Annex B)	81.28	1.35

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE: LT2952-03	
DETERMINATION	**RESULT**
Changes occurred / failures (CEN/TR 16792 - Annex C)	No change

CODE: LT3119-05	
DETERMINATION	**MEASURED FORCE (N)**
Removal force - Male button (CEN/TR 16792 - Annex B)	80.56
Removal force - Female button (CEN/TR 16792 - Annex B)	80.44

10. STATISTICS

The results must be treated as qualitative and quantitative.

According B.3.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values.

a) For the determination of **Changes occurred / failures**, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

b) For the determination of **Removal force**, the comparison is made through z **score** (B3 - ISO 17043).

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

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

BATCH	CHANGES OCCURRED / FAILURES (CEN/TR 16792 - ANNEX C)		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED RESULT	
LT2952	No change	No change	**SATISFACTORY**

BATCH: LT3119				
COMPONENT	REMOVAL FORCE (N) (CEN/TR 16792 - Annex B)		| z score |	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
MALE BUTTON	80.56	83.06	**1.69**	**SATISFACTORY**
FEMALE BUTTON	80.44	81.28	**0.62**	**SATISFACTORY**

12. CONCLUSIONS

The overall performance of this **SQ-1061.V2** program from the participant laboratory **INTERTEK TEST HIZMETLERİ A.S - INTERTEK-TEXTILE LABORATORY**, 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

SOUTH QUALITY
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS

PROGRAM:	Safety of children's clothing Recommendations for the design and manufacture of children's clothing - Mechanical safety
CODE:	SQ-1061
VERSION:	2
STANDARD:	CEN/TR 16792
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

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1 - General

This document serves as a guide for managing the results of the **SQ-1061.V2** program.

2 - Standard

CEN/TR 16792: 2014

3 - Tests involved

TEST
Verification of mechanical safety of children's clothing (Annex B + C)

4 - Samples

CODE	SAMPLE	QUANTITY
LT2952-03	White baby shirt - Size 1 - Sewn buttons	3
LT3119-05	Light blue baby bodysuit - Size 0 - Press fasteners	3

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) Samples must be retained until the end of the program, which concludes with the submission of the final report.
d) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

6 - Test conditions

CODE	METHOD	PARAMETER TO BE DETERMINED
LT2952-03	C	Changes occurred / failures
LT3119-05	B	Removal force

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # TURT251077968)

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Form LG.044/Rev.1/03.01.2022

TÜRKAK
Test
TS EN ISO/IEC 17025
AB-0716-T

AB-0716-T
TURT251077968
07-25

TEST REPORT

REPORT NUMBER : **TURT251077968**
APPLICANT NAME : **CORRELATION**
ADDRESS : Fatih Cad.Dereboyu sok.No.4/2 (test2)Küçükçekmece İstanbul / TURKEY
TEL:1FAX:(test)

SAMPLE DESCRIPTION :
Sample 1 One sample of LT2952-03 White baby shirt - Size 1 - Sewn buttons
Sample 2 One sample of LT3119-05 Light blue baby bodysuit - Size 0 - Press fasteners

DATE IN : **7 July ,2025 (09:38:00)**
DATE OUT : **24 July ,2025**
BUYER NAME : Not Given
REFERENCE : SOUTH QUALITY
FIBER COMPOSITION : Not Given
NOTE : Test methods were given by the applicant.
Pass/Fail statements were made based on the test methods.

PROVIDED CARE LABEL :

	SAMPLE	
TEST	1	2
Removal Force of Attached Components	X	P
Security of Non-grippable Attached Components	P	X

Aysegül Beris
Customer Care Executive

Durmuş UĞURLU
Textile Laboratory Manager

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TEST REPORT

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS = FURTHER STEPS / P* = COMMERCIALLY ACCEPTED BY CLIENT

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RESULTS
REPORT :TURT251077968

24 July ,2025

Test Method	Results	Requirements

Removal Force of Attached Components

PD CEN/TR 16792 Annex B:2014

Gauge length: 20 mm (except press fasteners including poppers and diaments, fused or glued on >3 mm)
Condition: According to ISO 139 minimum 4 hours

Largest dimension of the component: Male: 9.5 mm/Female: 9.5 mm

	Removal Force	
Sample 2		
Crotch Male		
1	80.9 N (MD)	70 N
2	84.6 N (MD)	
3	82.9 N (MD)	
4	77.7 N (MD)	
5	76.7 N (MD)	
Crotch Female		
1	78.6 N (FD)	70 N
2	85.9 N (FD)	
3	78.8 N (FD)	
4	78.9 N (FD)	
5	80.0 N (FD)	

MD = Male Detach
FD = Female Detach

Small part did not occurred.

Estimated Total Uncertainity=(±%7.5)

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RESULTS
REPORT :TURT251077968

24 July ,2025

Test Method	Results	Requirements
Security of Non-grippable Attached Components PD CEN/TR 16792 Annex C:2014 Wash Temperature: 40°C, Line Dry, 15 min durawash	**Result**	
Sample 1	No change was observed on the buttons	Negligible Change

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REPORT :TURT251077968

24 July ,2025

Part 1

Part 2

END OF TEST REPORT

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