

REPORT No 11394

Date of issue: September 11, 2025

Status: FINAL REPORT

ISTA-1B

ISTA METHODS - INTEGRITY TESTING

PACKAGED-PRODUCTS

WEIGHING OVER 150 lb (68 kg)

Program: SQ-4427.V5

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1. FOREWORD

This report summarizes the results of the **SQ-4427.V5** proficiency testing program on the assessment of product suitability for damage inspection after drop 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 August 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 Ferrer
 Statistic: Lic. Manuel Tozaki
 Supervision: Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is for assessment of product suitability for damage inspection after drop test, using the following standard:

Standard
ISTA - Procedure 1B (14-22)

To verify this, batches of fiberboard shipping containers have been selected.

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

4. PARTICIPANT

Company: **Bureau Veritas Consumer Products Services (Bangladesh) Ltd.**
 Laboratory: **Bureau Veritas Consumer Products Services (Bangladesh) Ltd.**
 Country: Bangladesh
 Client ID: S340
 Contact person: Mash-huda Akhter
 Deputy Senior Manager, Technical Service
mashhuda.akhter@bureauveritas.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: **200 units**

Tested samples from each batch: **40 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LPK3010	BATCH: LPK3011	BATCH: LPK3012
DEFORMATION	NO	YES	YES
TEARS OR RUPTURES	NO	YES	YES
JOINTS/SEAMS FAILURE	NO	YES	NO
FLAP OPENING	YES	YES	YES

The samples for this program are taken from the selected batch identified as **LPK3011**.

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

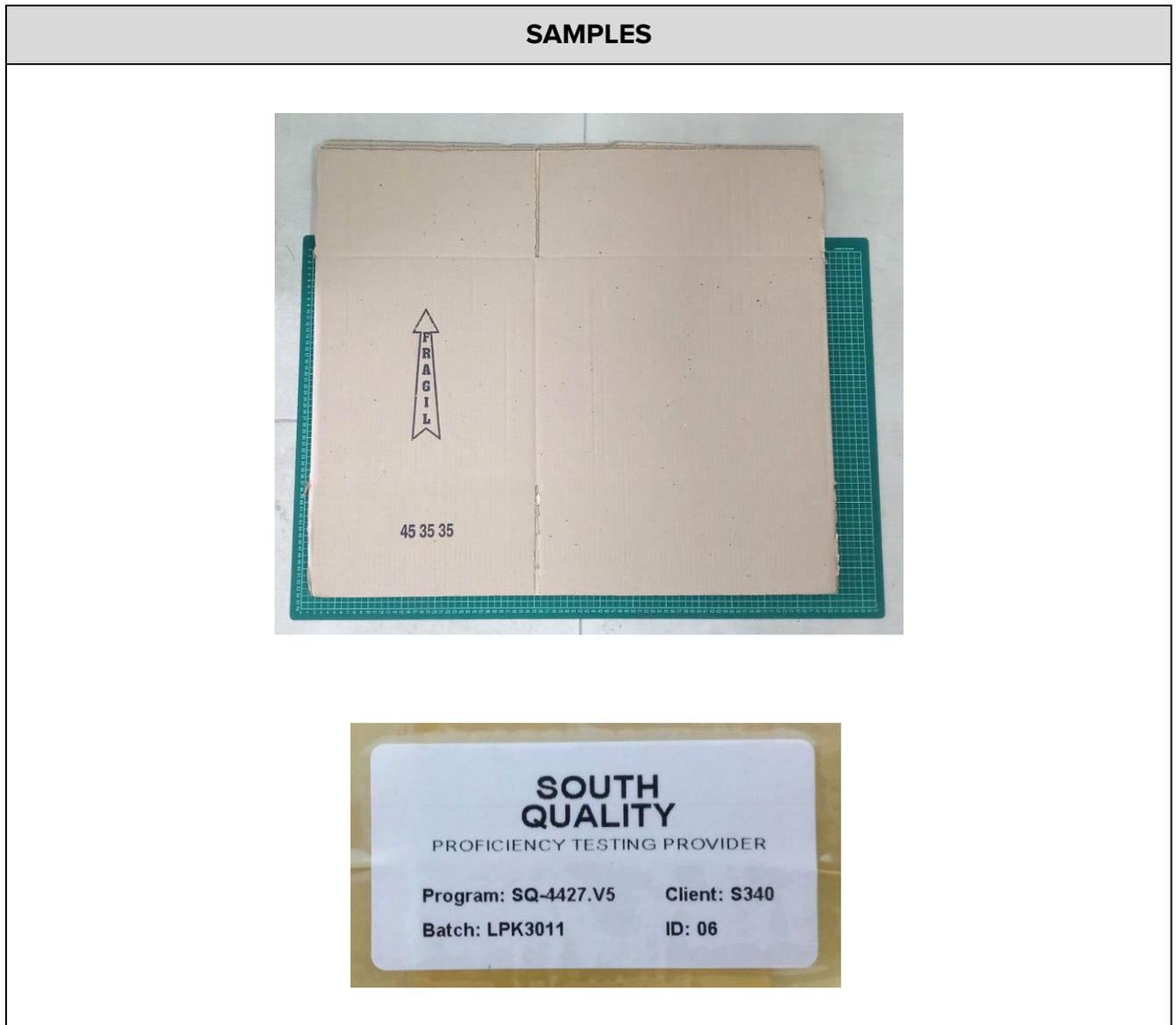
The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing:

Batch:	LPK3011
Sample ID:	06
Characteristics:	Fiberboard shipping container - 45x35x35 cm - 3 units

7. IMAGES



8. ASSIGNED VALUES

BATCH: LPK3011	
DETERMINATION	
DEFORMATION (YES/NO)	YES
TEARS OR RUPTURES (YES/NO)	YES
JOINTS/SEAMS FAILURE (YES/NO)	YES
FLAP OPENING (YES/NO)	YES

9. PARTICIPANT RESULTS (SEE APPENDIX)

CODE: LPK3011-06	
DETERMINATION	
DEFORMATION (YES/NO)	YES
TEARS OR RUPTURES (YES/NO)	YES
JOINTS/SEAMS FAILURE (YES/NO)	YES
FLAP OPENING (YES/NO)	YES

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

DETERMINATION	BATCH: LPK3011		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
DEFORMATION (YES/NO)	YES	YES	SATISFACTORY
TEARS OR RUPTURES (YES/NO)	YES	YES	SATISFACTORY
JOINTS/SEAMS FAILURE (YES/NO)	YES	YES	SATISFACTORY
FLAP OPENING (YES/NO)	YES	YES	SATISFACTORY

12. CONCLUSIONS

The overall performance on this **SQ-4427.V5** program from the participant laboratory **Bureau Veritas Consumer Products Services (Bangladesh) Ltd.**, is **SUFFICIENT** based on expected results.

The criteria used for the evaluation of the overall performance is the following:

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

APPENDIX

PARTICIPANT RESULTS

(Results form)



INSTRUCTIONS & RESULTS FORM

PROGRAM:	ISTA methods Integrity testing packaged-products weighing over 150 lb (68 kg)
CODE:	SQ-4427
VERSION:	5
STANDARD:	ISTA-1B
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-4427.V5** program.

Results must be typed, not handwritten.

2 - Standard

ISTA - Procedure 1B (14-22)

3 - Tests involved

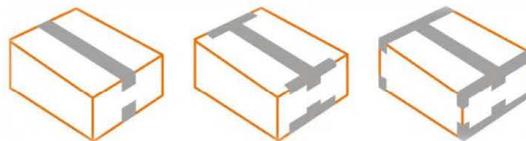
TEST
Damage inspection after drop test

4 - Samples

CODE	SAMPLE	QUANTITY
LPK3011-06	Fiberboard shipping container - 45x35x35 cm	3

5 - Notes

- a) Being a bilateral program, there is no deadline for submitting results.
- b) The tables in this document may be modified by the participant, if desired, to include data or observations.
- c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ISTA - Procedure 1B**.
- d) For the test, a thin plastic sheet shall be used as an inner liner to contain **68 kg** (-0 / +1 kg) of sand with an apparent density of 1500–1700 kg/m³. After pouring and leveling the sand (e.g., using a straightedge), the liner shall be folded over the sand to secure it. Any remaining voids within the container shall be loosely filled with bubble wrap, ensuring no compaction.
- e) Use pressure-sensitive adhesive tape with a width of 48 mm. Apply the tape to the top and bottom flaps of the box using the H-taping method:



- f) Samples must be retained until the end of the program, which concludes with the submission of the final report.
- g) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.
- h) Once this document is completed, it must be converted into a PDF file and sent to the program coordinator.

6 - Test results

Test date:	18.08.2025
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CODE	Item number	Deformation (YES / NO)	Tears or Ruptures (YES / NO)	Joints/seams failure (YES / NO)	Flap Opening (YES / NO)
LPK3011-06	1	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes
	3	Yes	Yes	Yes	Yes

OBSERVATIONS

PHOTOGRAPHS



DSQ-012 - REV 06 -

SQ-4427.V5

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----- END OF REPORT -----