

# REPORT No 11163

*Date of issue: June 27, 2025*

*Status: FINAL REPORT*

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## EN 1122

# PLASTICS - DETERMINATION OF CADMIUM WET DECOMPOSITION METHOD

## Program: SQ-0530.V2

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Prepared by:	Reviewed by:	Approved by:
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## 1. FOREWORD

This report summarizes the results of the **SQ-0530.V2** proficiency testing program on the determination of the total cadmium (Cd) content in plastics. 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: Eng. Erika Brest  
Assistant Technician: Mateo Giovanni  
Statistic: Lic. Manuel Tozaki  
Supervision: Eng. Emiliano Medina

## 3. OBJECTIVE

The objective of this proficiency testing program is to determine the total cadmium (Cd) content in plastics, using the following standard:

Standard
EN 1122: 2001

To verify this, batches of different types of plastics have been 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: **Bureau Veritas Consumer Products Services Lanka (Pvt) Ltd.**  
Country: Sri Lanka  
Client ID: S336  
Contact person: Dinithi Wijesiriwardena  
QA Executive  
[dinithi.wijesiriwardena@bureauveritas.com](mailto:dinithi.wijesiriwardena@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: **50 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LP2021	BATCH: LP2022	BATCH: LP2023
Total cadmium content	YES	NO	YES

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LP2129	BATCH: LP2130	BATCH: LP2131
Total cadmium content	YES	NO	NO

Samples for this program are taken from the selected batches identified as LP2023, and LP2129.

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

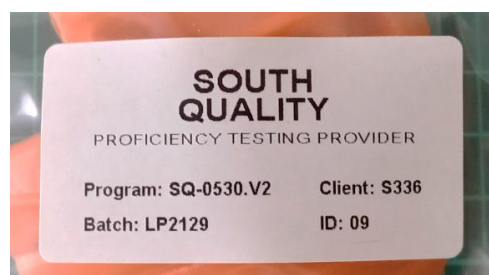
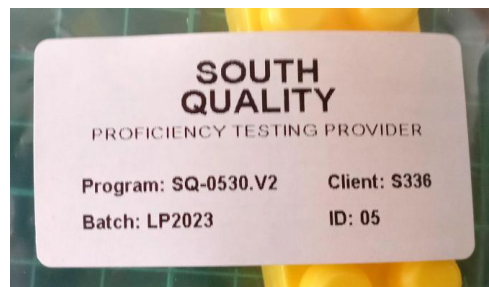
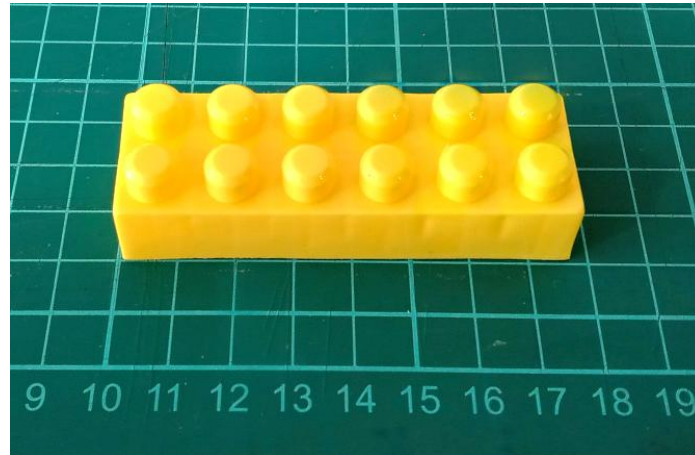
The following samples were sent for testing:

Batch:	LP2023
Sample ID:	05
Characteristics:	Yellow block

Batch:	LP2129
Sample ID:	09
Characteristics:	Orange boat

## 7. IMAGES

### SAMPLES



## 8. ASSIGNED VALUES

BATCH	TOTAL CADMIUM CONTENT	
	( mg/kg )	SD
LP2023	1.16	0.18
LP2129	1.77	0.21

## 9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	TOTAL CADMIUM CONTENT ( mg/kg )
LP2023-05	1.38
LP2129-09	1.98

## 10. STATISTICS

The results must be treated as qualitative.

For quantitative results the comparison is made according B.3.1.3 of ISO 17043 and the appropriate technique is to compare participant results with the assigned values. The results can be compared using percent difference **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 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	TOTAL CADMIUM CONTENT ( mg/kg )		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
LP2023	1.38	1.16	1.22	SATISFACTORY
LP2129	1.98	1.77	1.00	SATISFACTORY

## 12. CONCLUSIONS

The overall performance on this **SQ-0530.V2** program from the participant laboratory **Bureau Veritas Consumer Products Services Lanka (Pvt) Ltd.**, is **SUFFICIENT** based on expected results.

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

- **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

## INSTRUCTIVE



# INSTRUCTIVE

<b>PROGRAM:</b>	PLASTICS DETERMINATION OF CADMIUM WET DECOMPOSITION METHOD
<b>CODE:</b>	SQ-0530
<b>VERSION:</b>	2
<b>STANDARD:</b>	EN 1122
<b>COORDINATOR:</b>	Eng. Erika Brest ( <a href="mailto:ebrest@ptsouthquality.com">ebrest@ptsouthquality.com</a> )

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## 1 - General

This document serves as a guide for managing the results of the **SQ-0530.V2** program.

## 2 - Standard

**EN 1122: 2001**

## 3 - Tests involved

TEST
Determination of the total cadmium (Cd) content in plastics

## 4 - Samples

CODE	SAMPLE	QUANTITY
LP2023-05	Yellow block	1
LP2129-09	Orange boat	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) 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.

PHOTOGRAPHS

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# APPENDIX B

## PARTICIPANT RESULTS (TEST REPORT)



### TEST REPORT

SOUTH QUALITY PROFICIENCY TESTING PROVIDER

ATTN : Eng. ERIKA BREST

LAB NO.: (7425)119-0386  
 FORM NO.: /  
 DATE IN: MAY 27, 2025  
 MODIFIED DATE IN: /  
 DATE OUT: MAY 29, 2025  
 NO. OF WORKING DAYS: 03 DAYS  
 PAGE 1 OF 3

#### OVERALL RATING

PASS

FAIL

DATA

\_\_\_\_\_  
 \_\_\_\_\_  
 X

Vendor:	SOUTH QUALITY PROFICIENCY TESTING PROVIDER	Agent:	/
Fabric Supplier/Mill:	/	Factory/Manufacturer:	/
P.O. No.:	/	Style No.:	/
Sample Description:	02 NOS. SAMPLES (CODE: SQ-0530) (SAMPLE A: YELLOW BLOCK (CODE: LP2023-05) / SAMPLE B: ORANGE BOAT (CODE: LP2129-09)) (QUANTITY: 2)	Style Description:	/
Color:	/	Country of Origin:	/
Claimed Fabric Weight:	/	Claimed Fabric Count:	/
Yarn Size:	/	Submitted Size:	/
Size Range:	/	FPU No.:	/
GPU No.:	/	End Use:	/

Product Category:	SAMPLE
Test Requested:	AS PER THE TEST PROPERTY BOX
Previous Report No.:	/

Submitted Fiber Content:	/
Actual Fiber Content:	/
Suggested Fiber Content:	/
Submitted Care Instruction(s):	/
Client Expected Care Instruction:	/
Suggested Care Instruction(s):	/

C/N

**Bureau Veritas Consumer Products  
Services Lanka (Pvt) Ltd.**

No. 570, Galle Road, Katubedda, Moratuwa, Sri Lanka  
 Tel: (9411) 2350111-115 (dedicated lines), Fax: (9411)  
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 Email: bvqps.lanka@lk.bureauveritas.com

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TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
DETERMINATION OF THE TOTAL CADMIUM (Cd) CONTENT IN PLASTICS			X	


**Contact information for this report (Technical and General Inquiries and Feedback)**

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD

AUTHORIZED SIGNATORY

REVIEWED BY:                      ROSHNI HANSIKA

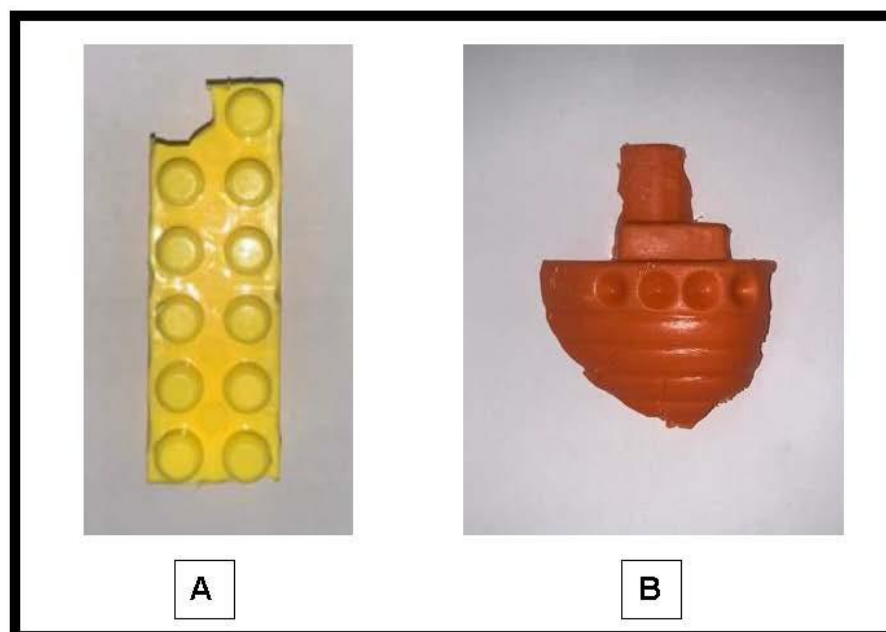
 APPROVED BY:                        
    PRASAD DUMINDA  
    ASSISTANT MANAGER

C/N

LAB NO: (7425)119-0386  
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<u>TEST PROPERTY</u>	<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
<u>Determination of the total cadmium (Cd) content in plastics</u> (EN 1122: 2001)		
	A: YELLOW BLOCK: 1.38 mg/kg B: ORANGE BOAT: 1.98 mg/kg	NOT GIVEN
METHOD DETECTION LIMIT: 1 mg/kg		
% - PERCENTAGE		
W/W - WEIGHT BY WEIGHT		

PHOTO OF SUBMITTED SAMPLE



END OF THE REPORT.

C/N

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