

TEST REPORT

Job No./Report No TR2721215

Date: 06 November 2025

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ROSA PLAST Sp. z o.o.

ul. Hipolitowska 102B, 05-074 Hipolitow

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

Sample No.	Sample Description
A	Filament ROSA3D PLA Starter Black (czarny)

Client's reference No. : TR 2721215
Sample Receiving Date : 30 October 2025
Resubmit Date : 31 October 2025
Test Performing Period : 30 October 2025–06 November 2025

Overall Conclusion : **PASS**

Test Results : Please refer to the next page(s).

Performed Test Summary : Selected test(s) as requested by client against Client's performance standard.

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Test Parameters	Result
Chemical tests	A1
Migration of Certain Elements - Category III	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline C&PC Testing Services Manager

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Filament ROSA3D PLA Starter Black (czarny)	A1	Main	Plastic	Black

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Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 - EN71-3: 2019 + A2:2024 – Migration of certain elements¹

Category III: Scrapped-off toy material

Test Method: With reference to EN71-3:2019 + A2:2024. Analysis of general elements was performed by ICP-MS/ ICP-OES , Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-ICP-MS and Organic Tin was analyzed by GC-MS.

Test Item		Result			Reporting Limit (mg/kg)	Permissible Limit EN71-3: 2019 + A2:2024 (mg/kg)
		A1				
Mass of trace amount	-	-			-	-
Soluble Aluminum	(Al)	n.d.			50	28130
Soluble Antimony	(Sb)	n.d.			10	560
Soluble Arsenic	(As)	n.d.			10	47
Soluble Barium	(Ba)	n.d.			50	18,750
Soluble Boron	(B)	n.d.			50	15,000
Soluble Cadmium	(Cd)	n.d.			5	17
Soluble Chromium	(Cr)	n.d.			0.01	--
Soluble Chromium (III) [#]	(Cr (III))	-			5	460
Soluble Chromium (VI) [#]	(Cr (VI))	-			0,01	0.053
Soluble Cobalt	(Co)	n.d.			10	130
Soluble Copper	(Cu)	n.d.			50	7,700
Soluble Lead	(Pb)	n.d.			10	23
Soluble Manganese	(Mn)	n.d.			50	15,000
Soluble Mercury	(Hg)	n.d.			10	94
Soluble Nickel	(Ni)	n.d.			10	930
Soluble Selenium	(Se)	n.d.			10	460
Soluble Strontium	(Sr)	n.d.			50	56,000
Soluble Tin	(Sn)	n.d.			4.9	180,000
Soluble Organic Tin [^]	--	-			--	12
Soluble Zinc	(Zn)	n.d.			50	46,000
Conclusion		Pass			-	-

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Note:

- mg/kg = milligram per kilogram
- n.d. = Not Detected
- 1% = 10000 mg/kg = 10000 ppm
- # The test result of soluble chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.01 mg/kg soluble Cr.
- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.
- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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End of Test Report

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