

ITG KOMAG Pszczyńska 37 44-101 Gliwice, Poland

LABORATORY OF MATERIAL ENGINEERING AND ENVIRONMENT

Phone: +48 32 237 46 65 www.komag.eu/laboratorium-dls





AB 910

TEST REPORT No. 300/DLS/2023

Testing material samples of sound deadening mats, delivered for testing by PIIRSTOCK OÜ in the scope of polycyclic aromatic hydrocarbons (PAHs) content

Orderer:

PIIRSTOCK OÜ Nelgi tee 23 74001 Viimsi

Estonia

Project

No.:

UP/DLS-31833/OR

Lotoria	
Name of tested object:	Material samples of sound deadening mats
Orderer markings:	COMFORT MAT VESPA 2,5 mm COMFORT MAT INTEGRA 6 mm
Sample number, according to the R-DLS/7:	300/23/P1 - Material sample of sound deadening mat – Vespa 2,5 mm 300/23/P2 - Material sample of sound deadening mat – Integra 6 mm



Date of delivery of the object for testing:

29.08.2023

Date of beginning / completion of tests:

30.08.2023 / 31.08.2023

Place of testing:

Laboratory of Material Engineering and Environment

	Sample number	Confirmation of conformity/non-conformity the test results with the require	ements		
	Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the awarding the GS mark - Specification pursuant to article 21(1) no. 3 of the Product Safety Act (ProdSG) – AfPS GS 2019:01				
ļ		PAK, Federal Institute for Occupational Safety and Health			
	300/23/P1	Category 2a Content of each of the following PAHs: chrysene, benzo[a]anthracene, benzo[b]fluoranthene benzo[k]fluoranthene, benzo[j]fluoranthene, benzo[a]pyrene, benzo[e]pyrene, indeno[1,2,3-c,d]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene, is below 0.2 mg/kg of the material with admixture of PAH	+		
	300/23/P2	Total content of the following PAHs:, phenanthrene, anthracene, fluoranthene, pyrene below 5 mg/kg of the material with admixture of PAH Content of naphthalene below 2 mg/kg of the material with admixture of PAH Total content of 15 PAH below 5 mg/kg of the material with admixture of PAH			



Test Report No. 300/DLS/2023

Page 2 of 5

	essment of polycyclic aromatic hydrocarbons (PAHs) in the awarding the GS nursuant to article 21(1) no. 3 of the Product Safety Act (ProdSG) – AfPS GS 201	nark -
300/23/P1	PAK, Federal Institute for Occupational Safety and Health Category 2b Content of each of the following PAHs: chrysene, benzo[a]anthracene, benzo[b]fluoranthene benzo[k]fluoranthene, benzo[j]fluoranthene, benzo[a]pyrene, benzo[e]pyrene, indeno[1,2,3-c,d]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene, is below 0.5 mg/kg of the material with admixture of	+
300/23/P2	PAH Total content of the following PAHs:, phenanthrene, anthracene, fluoranthene, pyrene below 10 mg/kg of the material with admixture of PAH Content of naphthalene below 2 mg/kg of the material with admixture of PAH Total content of 15 PAH below 10 mg/kg of the material with admixture of PAH	+
300/23/P1	Category 3a Content of each of the following PAHs: chrysene, benzo[a]anthracene, benzo[b]fluoranthene benzo[k]fluoranthene, benzo[j]fluoranthene, benzo[a]pyrene, benzo[e]pyrene, indeno[1,2,3-c,d]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene, is below 0.5 mg/kg of the material with admixture of	+
300/23/P2	PAH Total content of the following PAHs:, phenanthrene, anthracene, fluoranthene, pyrene below 20 mg/kg of the material with admixture of PAH Content of naphthalene below 10 mg/kg of the material with admixture of PAH Total content of 15 PAH below 20 mg/kg of the material with admixture of PAH	+
300/23/P1	Category 3b Content of each of the following PAHs: chrysene, benzo[a]anthracene, benzo[b]fluoranthene benzo[k]fluoranthene, benzo[j]fluoranthene, benzo[a]pyrene, benzo[e]pyrene, indeno[1,2,3-c,d]pyrene, benzo[g,h,i]perylene, dibenzo[a,h]anthracene, is below 1 mg/kg of the material with admixture of PAH	+
300/23/P2	Total content of the following PAHs: phenanthrene, anthracene, fluoranthene, pyrene below 50 mg/kg of the material with admixture of PAH Content of naphthalene below 10 mg/kg of the material with admixture of PAH Total content of 15 PAH below 50 mg/kg of the material with admixture of PAH	+
	ament and Council (EC) Regulation No. 1907/2006 for registration, assessment	
300/23/P1	of chemicals (REACH) (OJ L 396, 30.12.2006, p. 1-794 with further amendment entry 50 paragraph 5 Content of each of the following PAHs: benzo[a]pyrene, benzo[e]pyrene, benzo[a]pyrene, benzo[a]pyrene, benzo[a]pyrene, benzo[a]pyrene, benzo[b]fluorenthene	+
300/23/P2	benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, dibenzo[a,h]anthracene ≤ 1 mg/kg in relation to the weight of material with admixture of PAH	+
300/23/P1	entry 50 paragraph 6 Content of each of the following PAHs: benzo[a]pyrene, benzo[e]pyrene, benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[i]fluoranthene,	+
300/23/P2	benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, dibenzo[a,h]anthracene ≤ 0,5 mg/kg in relation to the weight of material with admixture of PAH	+
300/23/P1	entry 50 paragraph 9 and paragraph 10 Total content of the following PAHs: benzo[a]pyrene, benzo[e]pyrene,	+
300/23/P2	benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, dibenzo[a,h]anthracene ≤ 20 mg/kg in relation to the weight of material with admixture of PAH	+

symbol: "+"- sample meets the requirements, "-" - sample does not meet the requirements

NOTE: Statement of test results conformity with the requirements is based on a confidence level of 95% for	or the	expanded
uncertainty of measurement results on which the decision of conformity is based.		

Leader of testing team:	Hanna Musiolik, M.S.	Harme ollino	ef/
	/name/	/signature/	



Test Report No. 300/DLS/2023

Page 3 of 5

Authorized by:

Beata Grynkiewicz-Bylina, Ph.D. Eng. ITG KOMAG Professor

/name/

/signature/

Approved by

Inżynierii Materiałowej i Środowiska

Gliwice, 31.08.2023

dr hab. inz. Beata Tynkiewicz-Bylina [/signature and stamp/AG

TEST REPORT INCULDES ONLY THE RESULTS RELATED TO THE TESTED OBJECT DELIVERED BY THE ORDERER.
KOMAG TAKES AN OBLIGATION TO KEEP IN SECRET ALL TEST RESULTS. THE RESULTS WILL NOT BE PUBLISHED WITHOUT PERMISSION
OF THE ORDERER. THIS WILL NOT BE IN FORCE IF LAW REGULATIONS STATE DIFFERENTLY.
THE REPORT CAN NOT BE COPIED WITHOUT A WRITTEN APPROVAL OTHER THAN AS AN ENTIRE DOCUMENT.
THE REPORT IS A LABORATORY PROPERTY AND ANY CHANGES CAN NOT BE MADE WITHOUT AUTHOR'S PERMISSION.



Test Report No. 300/DLS/2023

Page 4 of 5

Description of the samples

Material samples of sound deadening mats: COMFORT MAT VESPA 2,5 mm, COMFORT MAT INTEGRA 6 mm.

The samples were taken and delivered for testing by the Orderer PIIRSTOCK OÜ, Estonia.

Scope and methods of testing

Item	Tested parameters	Testing method	Testing procedure and standard
1.	Polycyclic aromatic hydrocarbons (PAHs) content	Gas chromatography method with tandem mass spectrometry (GC-MS/MS)	PB-DLS/38, 8th edition; 2021

Test Results

Item	Sample number	Content PAHs [mg/kg]		
	•	benzo[a]pyrene	U	
	,	< 0.1	-	
		benzo[e]pyrene	U	
1		< 0.1	9 =	
		benzo[a]anthracene	U	
		< 0.1		
		chrysene	U	
		< 0.1	O#	
1		benzo[b]fluoranthene	U	
		< 0.1		
		benzo[j]fluoranthene	U	
		< 0.1	¥	
		benzo[k]fluoranthene	U	
		< 0.1		
	000/00/04	dibenzo[a,h]anthracene	U	
2.	300/23/P1	< 0.1	-	
		benzo[g,h,i]perylene	U	
		< 0.1	-	
		indeno(1,2,3-cd)pyrene	U	
1		< 0.1	/ = \/	
		phenantrene	U	
		< 0.1	-	
		pyrene	U	
		< 0.1	-	
		anthracene	U	
		< 0.1	1	
		fluoranthene	U	
		< 0.1	-	
		naphthalene	U	
		< 0.1	[44]	
		benzo[a]pyrene	U	
		< 0.1	-	
		benzo[e]pyrene	U	
		< 0.1	-	
		benzo[a]anthracene	U	
	000/00/700	< 0.1	-	
2		chrysene	U	
2.	300/23/P2	< 0.1	-	
		benzo[b]fluoranthene	U	
ı		< 0.1	(H)	
		benzo[j]fluoranthene	U	
		< 0.1	-	
		benzo[k]fluoranthene	U	
		< 0.1	<u>.</u>	



Test Report No. 300/DLS/2023

Page 5 of 5

Item	Sample number	Content PAHs [mg/kg]	
	300/23/P2	dibenzo[a,h]anthracene	U
		< 0.1	
- 1		benzo[g,h,i]perylene	U
		< 0.1	-
		indeno(1,2,3-cd)pyrene	U
- 1		< 0.1	
		phenantrene	U
2.		< 0.1	-
2.		pyrene	U
		< 0.1	
- 1		anthracene	U
- 1		< 0.1	-
		fluoranthene	U
		< 0.1	
		naphthalene	U
		< 0.1	; = :

symbol:

Note: measurements uncertainty U is an expanded uncertainty at confidence level 95% and coverage factor k = 2, according to the PO-DLS/07 general procedure.

The results and their uncertainty refer only to the tested sample and not to the product batch/substance/material the sample was taken from.

Rules for taking decisions on compliance/ not compliance with the requirements

According to ISO/IEC Guide 98-4:2012 "Uncertainty of measurement. Part 4: Role of measurement uncertainty in conformity assessment" and ILAC-G8:09/2019 guidelines.: "Guidelines on Decision Rules and Statements of Conformity":

- COMPLIANCE WITH THE REQUIREMENTS is stated when the measurement result/test result plus/minus expanded uncertainty at confidence level 95% and coverage factor k = 2, is within the acceptance interval defined in regulations / standards by the accepted value/values. Risk of wrong acceptation is below 2.5%.
- NON-COMPLIANCE WITH THE REQUIREMENTS is stated when the measurement result/test result plus/minus expanded uncertainty at confidence level 95% and coverage factor k = 2, is within the acceptance interval defined in regulations / standards by the accepted value/values. Risk of wrong rejection is below 2.5%.

Number of copies – 2 PIIRSTOCK OÜ x 1 KOMAG x 1

-END OF THE REPORT-

[&]quot;-" in uncertainty "U" column – there is no uncertainty value as the test result is below/above bottom/upper limit of the measuring range