

Kargro Recycling  
Mr. Wim Migchels  
Kanaaldijk 14  
6031 MZ Nederweert  
**NETHERLANDS**

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Consumer and Retail  
Non Food

Taunusstein, 25/07/2018

**Test-report no. 3908673-03**  
**Test-report version < 1 >**

Original Sample ID	Sample Description	Sample Receipt Date
180685077	Product: 0825NV Production: W/C 25, 2018 Date: 22-06-2018	11/07/2018




**General Information**

SGS-Client's ID	:	10145175
SGS-Customer-Order	:	4617639
Ordering date	:	09/07/2018
Testing period	:	16/07/2018 – 20/07/2018
Buyer	:	-
Order No.	:	-
Testing scope	:	Test according to client's requirements

**Assessment**

Overall assessment	Pass
The sample meets the requirements to PAH's according to Netherland CPRG-Norm (Standard description for RAW scaffolding for rubber infill of vehicle tires in artificial grass sport fields).	

**SGS INSTITUT FRESENIUS GmbH**

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Thomas Engel  
Customer Service Consultant

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**Summary of results**

Test	Result
PAH	Pass

**Note:**

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).  
 Conclusions are based on the relevant requirements; measurement uncertainties are not taken into account. Only results above the relevant detection limit are taken into account for the calculation of sums.  
 Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.  
 The composite sampling method is based on the client's special request and could be a modification from the testing standard.  
 For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

**Photo documentation**



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**Analytical results**

**PAH**

**Test Method**

AfPS GS 2014:01 PAK, with use of GC-MSD

<u>Sample(s)</u>	<u>Unit</u>	<u>Result</u> <b>180685077</b>
Benzo[a]anthracene (56-55-3) <sup>[1]</sup>	mg/kg	<b>0.2</b>
Chrysene (218-01-9) <sup>[1]</sup>	mg/kg	<b>0.3</b>
Benzo[e]pyrene (192-97-2) <sup>[1]</sup>	mg/kg	<b>1.4</b>
Benzo[b]fluoranthene (205-99-2) <sup>[1]</sup>	mg/kg	<b>0.3</b>
Benzo[k]fluoranthene (207-08-9) <sup>[1]</sup>	mg/kg	< 0.2
Benzo[j]fluoranthene (205-82-3) <sup>[1]</sup>	mg/kg	< 0.2
Benzo[a]pyrene (50-32-8) <sup>[1]</sup>	mg/kg	<b>0.9</b>
Dibenzo[ah]anthracene (53-70-3) <sup>[1]</sup>	mg/kg	< 0.2
Total EU PAHs		<b>3.1</b>
Acenaphthylene (208-96-8)	mg/kg	<b>1.1</b>
Acenaphthene (83-32-9)	mg/kg	< 0.2
Fluorene (86-73-7)	mg/kg	<b>0.4</b>
Phenanthrene (85-01-8)	mg/kg	<b>3.4</b>
Anthracene (120-12-7)	mg/kg	<b>0.3</b>
Fluoranthene (206-44-0)	mg/kg	<b>6.9</b>
Pyrene (129-00-0)	mg/kg	<b>24</b>
Naphthalene (91-20-3)	mg/kg	<b>1.0</b>
Benzo[ghi]perylene (191-24-2)	mg/kg	<b>6.8</b>
Indeno[1,2,3-cd]pyrene (193-39-5)	mg/kg	<b>0.7</b>
Total 18 PAH <sup>[2]</sup>	mg/kg	<b>47.7</b>

Note:

**Client's requirement:**

Requirement according to Netherland CPRG-Norm (Standard description for RAW scaffolding for rubber infill of vehicle tires in artificial grass sports fields):

- Sum 8 PAH (list REACH Annex XVII, Entry 50): max. 20 mg/kg
- Sum 18 PAH (list EPA): max. 75 mg/kg

**For your information:**

**Requirement:** Limits acc. to Regulation (EG) No. 1907/2006 effective from December 27, 2015:  
all [1] marked substances: < 0.5 mg/kg for toys and 1.0 mg/kg for other products

<sup>[1]</sup> PAH according to the Commission Regulation (EU) No 1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006 effective after 27 December 2015

<sup>[2]</sup> For the summation only results above the reporting limit are taken into account.

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Parameter	Category 1	Category 2		Category 3	
	Materials which are intended to be put in the mouth as well as materials in toys with foreseeable and prolonged skin contact > 30s	Materials not included in category 1 with foreseeable skin contact > 30 s (prolonged skin contact) or repeated short-term skin contact*		Materials not included in category 1 or 2 with foreseeable skin contact < 30 s (short-term skin contact)	
		Toys according to DIR 2009/48/EC	other products acc. ProdSG	Toys according to DIR 2009/48/EC	other products acc. ProdSG
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzo[a]anthracene (56-55-3) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (218-01-9) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene (192-97-2) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (205-99-2) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (207-08-9) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (205-82-3) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene (50-32-8) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[ah]anthracene (53-70-3) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene (208-96-8); Acenaphthene (83-32-9); Fluorene (86-73-7); Phenanthrene (85-01-8); Anthracene (120-12-7); Fluoranthene (206-44-0); Pyrene (129-00-0)	<1 As sum	< 5 As sum	< 10 As sum	< 20 As sum	< 50 As sum
Benzo[ghi]perylene (191-24-2) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (193-39-5) <sup>[1]</sup>	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Naphthalene (91-20-3) <sup>[1]</sup>	< 1	<2		< 10	

\*\*\* End of test report \*\*\*

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