

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

Alexander Siry
Customer Service Manager - TJP
Tel.: +49 6128 744-502, Fax: +49 6128744-534
Alexander.Siry@sgs.com
Consumer and Retail
Non Food

Taunusstein, 13/08/2018

Test-report no. 3933833-01
Test-report version < 1 >

Original Sample ID	Sample Description	Sample Receipt Date
180751649	rubber granulates type 0825 NV Production W-C 2018 Date 13.07.2018	31/07/2018




General Information

SGS-Client's ID	: 10145175
SGS-Customer-Order	: 4639216
Ordering date	: 30/07/2018
Testing period	: 31/07/2018 – 06/08/2018
Buyer	: -
Order No.	: -
Testing scope	: Test according to client's requirements

Assessment

Overall assessment	Pass
The contents of all parameters tested are below their respective limits.	

SGS INSTITUT FRESENIUS GmbH

i. V. 
Alexander Siry
Head of CRS Non Food - TJP

i. A. 
Stephan Neuhaus
Customer Service Consultant

Test report no. 3933833-01

Kargro Recycling
 Kanaaldijk 14
 NL-6031 MZ Nederweert

SGS Order No.: 4639216
 Date: 13/08/2018
 Page 2/4

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



Test report no. 3933833-01

Kargro Recycling
Kanaaldijk 14
NL-6031 MZ Nederweert

SGS Order No.: 4639216
Date: 13/08/2018
Page 3/4

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> 180751649
Benzo[a]anthracene (56-55-3) ^[1]	mg/kg	0.2
Chrysene (218-01-9) ^[1]	mg/kg	0.4
Benzo[e]pyrene (192-97-2) ^[1]	mg/kg	1.9
Benzo[b]fluoranthene (205-99-2) ^[1]	mg/kg	0.4
Benzo[k]fluoranthene (207-08-9) ^[1]	mg/kg	< 0.2
Benzo[j]fluoranthene (205-82-3) ^[1]	mg/kg	0.2
Benzo[a]pyrene (50-32-8) ^[1]	mg/kg	1.2
Dibenzo[ah]anthracene (53-70-3) ^[1]	mg/kg	< 0.2
Total EU-PAHs		4.3
Acenaphthylene (208-96-8)	mg/kg	1.2
Acenaphthene (83-32-9)	mg/kg	< 0.2
Fluorene (86-73-7)	mg/kg	0.3
Phenanthrene (85-01-8)	mg/kg	3.4
Anthracene (120-12-7)	mg/kg	0.2
Fluoranthene (206-44-0)	mg/kg	7.3
Pyrene (129-00-0)	mg/kg	27
Naphthalene (91-20-3)	mg/kg	0.9
Benzo[ghi]perylene (191-24-2)	mg/kg	8.8
Indeno[1,2,3-cd]pyrene (193-39-5)	mg/kg	0.9
Total 18 PAH ^[2]	mg/kg	54.3
Conclusion Total 18 PAH		Pass

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

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

^[2] For the summation only results above the reporting limit are taken into account.

Test report no. 3933833-01

Kargro Recycling
Kanaaldijk 14
NL-6031 MZ Nederweert

SGS Order No.: 4639216
Date: 13/08/2018
Page 4/4

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) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (218-01-9) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene (192-97-2) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (205-99-2) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (207-08-9) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (205-82-3) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene (50-32-8) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[ah]anthracene (53-70-3) ^[1]	< 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) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (193-39-5) ^[1]	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Naphthalene (91-20-3) ^[1]	< 1	< 2		< 10	

*** End of test report ***

This document is issued by the Company subject to its General Conditions of Service (www.sgsgroup.de/agb). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. This document is an original. If the document is submitted digitally, it is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its client and this document does not exonerate parties to a transaction from exercising all their rights and under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Note: The sample(s) to which the findings recorded herein (the "finding s") relate was (were) probably drawn and / or provided by the client or by a third party acting at the client's direction. In this case the findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.