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30.10.2019

Report No. 0003303038/30 AZ 353388a
Revision of test report AZ353388, dated 23.09.2019

Test item: Two plastic materials

Identification: 757 Rib "n" Roll P3™ 3 mm fine rib
759 Rib "n" Roll P3™ 3 mm broad rib

Condition at delivery: No claim

Date of delivery: 09.09.2019

Place of testing: Cologne

Test period: 18.09.2019 to 23.09.2019

Test scope: Parameters selected by customer

Test specification: AfPS GS 2014:01 - PAH

Test result: Complies with PAH requirements to AfPS GS 2014:01.

Cologne, 30.10.2019

X 

Sachverständige(r)/Expert
Signiert von: Markus Clemens

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Sachverständige(r)/Expert
Signiert von: Ralf Meier

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1. List of materials

Article	Article name
1	757 Rib "n" Roll P3™ 3 mm fine rib
2	759 Rib "n" Roll P3™ 3 mm broad rib

Mat.No.	Article	Component	Material	Colour
001	1	basic material	plastic	black
002	2	basic material	plastic	black

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2. Results

Polycyclic aromatic hydrocarbons (PAH)

Sample No.	353388-001	353388-002	
Sample composition	Mat. 001	Mat. 002	
Unit	mg/kg	mg/kg	
Category *	3	3	
Acenaphthylene	<0,2	<0,2	
Acenaphthene	<0,2	<0,2	
Fluorene	0,3	0,2	
Phenanthrene	0,9	1	
Anthracene	<0,2	<0,2	
Fluoranthene	0,4	0,4	
Pyrene	0,7	1	
Total 7 PAH	2,3	2,6	
Naphthalene	<0,2	<0,2	
Indeno(1,2,3-cd)pyrene	<0,2	<0,2	
Benzo(ghi)perylene	<0,2	<0,2	
Benzo(a)anthracene	<0,2	<0,2	
Chrysene	0,3	<0,2	
Benzo(b)fluoranthene	<0,2	<0,2	
Benzo(j)fluoranthene	<0,2	<0,2	
Benzo(k)fluoranthene	<0,2	<0,2	
Benzo(e)pyrene	<0,2	<0,2	
Benzo(a)pyrene	<0,2	<0,2	
Dibenz(ah)anthracene	<0,2	<0,2	
Total 18 PAH	2,6	2,6	

* Assessment of the results according to "Testing and evaluation of Polycyclic Aromatic Hydrocarbons (PAH) at granting of the GS-sign", AfPS GS 2014:01 PAK (issue 04.08.2014)

Category 1 - Materials intended to be put in mouth or materials for toys intended to come into contact and with prolonged contact with the skin (longer than 30 s).

Category 2 - Materials not covered by category 1 with foreseeable contact to skin for longer than 30 seconds (long term skin contact) or repeated short term skin contact.

Category 3 - Materials not covered by category 1 or 2 with foreseeable contact to skin up to 30 seconds (short term skin contact).

Limit values:

Benzo(a)pyrene, Benzo(e)pyrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(ah)anthracene, Benzo(ghi)perylene, Indeno(1,2,3 cd)pyrene

Category 1: <0.2 mg/kg each

Category 2: <0.5 mg/kg each

Category 3: <1 mg/kg each

Naphthalene

Category 1: <1 mg/kg

Category 2: <2 mg/kg

Category 3: <10 mg/kg

Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyren, Anthracene and Fluoranthene respectively all 18 PAH each

Category 1: <1 mg/kg

Category 2: <10 mg/kg

Category 3: <50 mg/kg

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Limit for 8 EU-PAHs (grey indicated substances) in rubber or plastic components of articles according to Regulation (EC) No. 1907/2006, Annex XVII, (effective from 27.12.2015):

- 1 mg/kg per substance for parts of articles that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use
- 0.5 mg/kg per substance for toys and childcare articles

** FCM: For any material in contact with food, Polycyclic Aromatic Hydrocarbons (PAHs) are restricted to use, either by framework Regulation (EC) No 1935/2004 article 3 or Regulation (EU) No 10/2011 Annex I (Positive list).

If being analyzed that PAH (< 0.2 mg/kg) are not present in the materials with food contact, the risk of a release of PAH under normal and foreseeable condition onto the food simulant is negligible. However, by any positive detection of any PAH above the threshold limit by total content test, a migration test is necessary.

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3. Summary of methods

Polycyclic aromatic hydrocarbons (PAH)	Standard: AfPS GS 2014:01 PAK	Issue date: 04.08.14
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Method description:
Harmonized Method for Determination of Polycyclic Aromatic Hydrocarbons (PAH) in polymers, gas chromatographic method with mass spectrometric detection. Limit of determination 0,2 mg/kg per component

Notes:

Single components with an amount of < 0.2 mg/kg were not considered by the calculation of the sum. In the case of all PAH were not detected, the result is stated n.n. (not detectable).

----End of report----