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21.11.2019

Report No. 0003309367/30 AZ 360164
Test item: One sample of melamine faced chipboard
Identification: Melamine faced chipboard
Condition at delivery: No claim
Date of delivery: 31.10.2019
Place of testing: Cologne
Test period: 18.11.2019 to 21.11.2019
Test scope: Parameters selected by customer
Test specification: AfPS GS 2019:01 - PAH

Cologne, 21.11.2019

X 

Sachverständige(r)/Expert
Signiert von: Meike Doetsch

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Sachverständige(r)/Expert
Signiert von: Ralf Meier

Report No.: 0003309367/30 AZ 360164
Date: 21.11.2019

1. Photo documentation

Picture 1: Melamine faced chipboard



Report No.: 0003309367/30 AZ 360164
Date: 21.11.2019

2. List of materials

Article	Article name
1	Melamine faced chipboard

Mat.No.	Article	Component	Material	Colour
001	1	coating	melamine	white

Report No.: 0003309367/30 AZ 360164
Date: 21.11.2019

3. Results

Polycyclic aromatic hydrocarbons (PAH)

Sample No.	360164-001		
Sample composition	Mat. 001		
Unit	mg/kg		
Category *	not specified		
Phenanthrene	<0,2		
Pyrene	<0,2		
Anthracene	<0,2		
Fluoranthene	<0,2		
Total 4 PAH	n.n.		
Benzo(a)pyrene	<0,2		
Benzo(e)pyrene	<0,2		
Benzo(a)anthracene	<0,2		
Benzo(b)fluoranthene	<0,2		
Benzo(j)fluoranthene	<0,2		
Benzo(k)fluoranthene	<0,2		
Chrysene	<0,2		
Dibenz(ah)anthracene	<0,2		
Benzo(ghi)perylene	<0,2		
Indeno(1,2,3-cd)pyrene	<0,2		
Naphthalene	<0,2		
Total 15 PAH	n.n.		

n.n. not detectable

* Assessment of the results according to "Testing and evaluation of Polycyclic Aromatic Hydrocarbons (PAH) at granting of the GS-mark", AfPS GS 2019:01 PAK (issue 15 May 2019)

Category 1 - Materials intended to be taken into the mouth, or materials in toys acc. to Directive 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use

Category 2 - Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use

Category 3 - Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within foreseeable Use

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 Phenanthrene, Pyrene, Anthracene and Fluoranthene respectively all 15 PAH each

Category 1: <1 mg/kg

Category 2: <10 mg/kg

Category 3: <50 mg/kg

Report No.: 0003309367/30 AZ 360164
Date: 21.11.2019

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

- 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.

Report No.: 0003309367/30 AZ 360164
Date: 21.11.2019

4. Summary of methods

Polycyclic aromatic hydrocarbons (PAH)	Standard: AfPS GS 2019:01 PAK	Issue date: 15.05.19
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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----