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05.05.2021

Report No. 0001087531/10 AZ 410484
Test item: One sample of coated wooden board
Identification: Plywood with melamine-based film
10621MM
Condition at delivery: No claim
Date of delivery: 26.04.2021
Place of testing: Nuremberg
Test period: 28.04.2021 to 05.05.2021
Test scope: Parameters selected by customer

tested by:

authorized by:

05.05.2021

X 

Sachverständige(r)/Expert
Signiert von: Ralf Meier

05.05.2021

X 

Sachverständige(r)/Expert
Signiert von: Markus Clemens

Photo documentation

Picture 1: Plywood with melamine-based film, 10621MM



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List of materials

Article	Article name
1	Plywood with melamine-based film, 10621MM

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

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Results

EN 71-3, Migration of certain elements, category 3

Sample composition	Mat. 001				
Sample No.	410484-001				
Unit	mg/kg				
Migratable elements, material testing					
Dewaxing	n				
Aluminium	2500				
Antimony	<5				
Arsenic	<1				
Barium	<100				
Boron	<10				
Cadmium	<0,1				
Chromium, total	0,33				
Chromium (III)	0,330				
Chromium(VI)	<0,05				
Cobalt	<1				
Copper	<10				
Lead	<1				
Manganese	<100				
Mercury	<1				
Nickel	<10				
Selenium	<5				
Strontium	<100				
Tin*	<3				
Zinc	<100				

n no

Maximum values according to the toy safety-directive 2009/48/EC:

Category 3: Scraped off toy material:

aluminium 70.000 mg/kg, antimony 560 mg/kg, arsenic 47 mg/kg, barium 18.750 mg/kg, boron 15.000 mg/kg, cadmium 17 mg/kg, chromium(III) 460 mg/kg, chromium(VI) 0.053 mg/kg, cobalt 130 mg/kg, copper 7.700 mg/kg, lead 23 mg/kg, manganese 15.000 mg/kg, mercury 94 mg/kg, nickel 930 mg/kg, selenium 460 mg/kg, strontium 56.000 mg/kg, tin 180.000 mg/kg, zinc 46.000 mg/kg

*Tin: If the migration of tin is less than the reporting limit the compliance with the limit value of 12 mg/kg can be confirmed. The determination of tin organic compounds is not required in regards to metals.

According to Directive (EU) 2019/1922, the limit for the migration of aluminum is reduced to 28130 mg/kg. The new limit comes into force on 20.05. 2021.

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Summary of methods

EN 71-3, Migration of certain elements, category 3	Standard: EN 71-3:2019	Issue date: 01.04.19
Method description: Safety of toys - Part 3: Migration of certain elements and chromium(VI) from toy materials of category III - Analysis of the elements by ICP-MS and chromium(VI) by ion chromatography		

Version directory

Version No.	Report No.	List of changes	Datum
1	0001087531/10 AZ 410484	First edition	05.05.2021

Only the version last shown in the version directory is valid. The previous version(s) shown in the table lose their validity immediately and must be returned or destroyed by the customer.

----End of report----