



Test
TS EN ISO/IEC 17025
AB-0342-T

AB-0342-T
144393222
12/23

TÜV Rheinland
Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
Saniye Ermutlu Sokak Çolakoglu Plaza B Blok No :12 Kozyatagı-İSTANBUL

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Test Report

REALMAK BICAK MAKİNA SAN. VE Tic. LTD. ŞTi.

NO: 39/1., TAHTALI MAH. BURSA YOLU CAD., BURSA, Türkiye

Report No. 144393222
Buyer /
Test Item. : PVC Edgebanding For Wooden Furnitures
Item No. : /
Manufacturer : /
Fiber Content. : /
Colour Name. : /
Article No. : /
Test Scope : Parameters selected by customer.

Applicant's Provided Care Instruction/Label: -

Sample Receiving date: 2023-11-24 (p.m)

Testing Period: 2023-11-27 to 2023-12-04

Report Date: 2023-12-04

Test Result: No Comment

Th9 5KeinlanG UluVlararaV1 StanGarlar SertilikaVyon Ye'enetim A ü aFFreGiteG Ey Th5KAK unGer reJivtration numEer AB- 2-T lor ,S2 ,E& 1 2--- 2 1 aV teVt laEoratory

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of the test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following, pages which are part of this report

For and on behalf of
TOV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş

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/ 2014-07-02

Version No / Date: 1.0

TUV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.

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The results given in this report belong to the received sample by vendor.

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This test report is signed by digital signature.

TÜV Rheinland testing laboratories apply the Zero Guard band rule for statement of conformity evaluation, unless other decision rule is required by the customer.

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1. Photo



2. List of Materials

Material List:

Material No.	Material	Color	Location
M001	Plastic	Lt. Brown	Pvc Edging

Conclusion:

TEST PROPERTY

Polycyclic aromatic hydrocarbons (PAHs)
 EN 71-3:2019+A1:2021 Migration of 19 Elements
 Dimethyl fumarate
 Colorfastness to Light
 Phthalates content

M001

 #
 #
 #
 #

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1. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AfPS GS 2019:01 PAK

Test Result:

Test No.				T001
Material No.				M001
Test Parameter	CAS NO	Unit	RL	Result
Anthracene	120-12-7	mg/kg	0.2	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.
Chrysene	218-01-9	mg/kg	0.2	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.
Fluoranthene	206-44-0	mg/kg	0.2	n.d.
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.
Naphthalene	91-20-3	mg/kg	0.2	n.d.
Phenanthrene	85-01-8	mg/kg	0.2	n.d.
Pyrene	129-00-0	mg/kg	0.2	n.d.
Sum of, Anthracene, Fluoranthene, Phenanthrene, Pyrene	-	mg/kg	0.2	n.d.
Sum of 15 PAHs	-	mg/kg	0.2	n.d.
Category*	-	-	2	-
Conclusion				NO COMMENT

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

Remark:

- * PAH maximum permissible limits requirement from the GS-Mark Approval published by the German Federal Institute for Occupational Safety and Health (BAuA)
- ** Single components with an amount of <0.2 mg/kg were not considered by the calculation of the sum.
 In the case of all 15 PAHs were not detected, the result is stated < RL

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2. EN 71-3:2019+A1:2021 Migration of 19 Elements

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-MS

3) For scraped-off toy materials:

Test Result:

Test No.			T001
Material No.			M001
Test Parameter	Unit	RL	Result
Aluminium (Al)	mg/kg	500	n.d.
Antimony (Sb)	mg/kg	5	n.d.
Arsenic (As)	mg/kg	0.5	n.d.
Barium (Ba)	mg/kg	200	n.d.
Boron (B)	mg/kg	200	n.d.
Cadmium (Cd)	mg/kg	0.2	n.d.
Chromium III (Cr(III))	mg/kg	1	n.d.
Chromium VI (Cr(VI))	mg/kg	0.045	n.d.
Cobalt (Co)	mg/kg	1.5	n.d.
Copper (Cu)	mg/kg	50	n.d.
Lead (Pb)	mg/kg	0.2	n.d.
Manganese (Mn)	mg/kg	200	n.d.
Mercury (Hg)	mg/kg	0.5	n.d.
Nickel (Ni)	mg/kg	10	n.d.
Selenium (Se)	mg/kg	5	n.d.
Strontium (Sr)	mg/kg	500	n.d.
Tin (Sn)	mg/kg	5	n.d.
Organic Tin [^]	mg/kg	0.04	n.d.
Zinc (Zn)	mg/kg	500	n.d.

Abbreviation: < less than
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
[^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

Remark:

- * Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021 / BS EN 71-3:2019+A1:2021 , cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- ** For any test portion containing grease, oil, wax or similar material, such materials would has been removed with isooctane by using Soxhlet extraction.
- **** The highlighted result was found to be more than the maximum permissible limit.
- # According to EN 71-3:2019+A1:2021, if the weight of a test portion of toy material is less than 10mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10mg and 100mg, the analytical results would be calculated as though 100mg of the test portion had been used.

Products

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3. Dimethyl fumarate

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Dimethyl fumarate	mg/kg	0.025	-	n.d.

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

- * According to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 61 and amendment Commission Regulation (EU) No. 412/2012 (formerly known as 2012/48/EU), dimethylfumarate (DMF) shall not be used in articles or any parts thereof in concentrations greater than 0.1 mg/kg. Articles or any parts thereof containing DMF in concentrations greater than 0.1 mg/kg shall not be placed on the market.

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4. Colorfastness to Light

Test method : EN 15187, Colorfastness to artificial light- Xenon Arc Fading Lamp test

	<u>M001</u>	Requirement	Conclusion
Color change	6+	-	No Comment

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5. Phthalates content

Test Method: Ref. to CPSC-CH-C1001-09.4

Test Result:

					Test No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	

Abbreviation: n.d. = not detected (< Reporting limit)
 RL = Reporting Limit
 % = percentage

- END -