



AB-1760-T

E23-004538

09-23

TEST	PARTS																			
	1																			
*EN 71-3	P																			

P:Pass

F: Fail

N.R:No Requirement

S.C: Still Continous

L.S: Lack of Sample

N.C: No Comment

N.A: Not applicable

\* Marked tests are covered by the accreditation

\* Disclaimer Statement: -

\*When requested by the customer, the measurement uncertainty of the tests is reported, but the measurement uncertainty value is not taken into account in the "Pass / Fail" evaluation. The reported uncertainty is the expanded uncertainty and is obtained using the standard uncertainty coverage factor k = 2. The reliability level is 95%. The declaration of conformity is given according to the simple acceptance decision rule.

  
Yunus YILMAZ  
R.S Receiving and Reporting

  
Cengiz SAĞAS  
Industrial Chemistry Laboratory Responsible

Approved by  
01.09.2023

  
Laboratuvar Müdürü  
Hasan DEĞER

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**1- EN 71-3 ANALYSIS****Safety Of Toys: Migration of Certain Elements****TOXIC ELEMENTS ANALYSIS****TS EN 71-3:2013+A3:2018**

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer ( IC-ICP / MS )

<b>Toy Material</b>	<b>Category I</b>	<b>Category II</b>	<b>Category III</b>	<b>Parts</b>
Paints, varnishes, varnishes, printing inks, polymers, coatings and similar coatings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Polymeric and similar materials, including laminates with or without textile reinforcement, except for other textiles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Paper and cardboard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Textiles, natural or synthetic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>1</b>
Glass, ceramics, metal materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other materials with or without bulk paint (eg wood, fiber board, hard plate, bone and leather)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Compressed dye tablets, materials intended to leave a trace or such similar materials in solid form in the toy (eg, interior of coloring pencils, chalk, pastel paint)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Soft modeling materials including modeling sludge and plaster	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Finger paints, varnishes, varnishes, liquid ink in the fountain pen and liquid paints containing such similar materials (eg, adhesive and moist substances, foam solution) in liquid form in the toy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Stick adhesives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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ELEMENT	IMMIGRATION		
	CATEGORY I mg/kg	CATEGORY II mg/kg	CATEGORY III mg/kg
ALUMINIUM (Al)	2250	560	28130
ANTIMONY (Sb)	45	11,3	560
ARSENIC (As)	3,8	0,9	47
COPPER (Cu)	622,5	156	7700
BARIUM (Ba)	1500	375	18750
BORON (B)	1200	300	15000
MERCURY (Hg)	7,5	1,9	94
ZINC (Zn)	3750	938	46000
CADMIUM (Cd)	1,3	0,3	17
TIN (Sn)	15000	3750	180000
COBALT (Co)	10,5	2,6	130
CHROMIUM (III)	37,5	9,4	460
CHROMIUM (VI)	0,02	0,005	0,053
LEAD (Pb)	2	0,5	23
MANGAN (Mn)	1200	300	15000
NICKEL (Ni)	75	18,8	930
ORGANIC TIN	0,9	0,2	12
SELENIUM (Se)	37,5	9,4	460
STRONTIUM (Sr)	4500	1125	56000

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## TOXIC ELEMENTS ANALYSIS

TS EN 71-3+A1:2021

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer ( IC-ICP / MS )

ELEMENTS	PARTS (ppm)					REPORTING LIMIT (ppm)	REQUIREMENT (ppm)
	1						
ANTIMONY (Sb)	N.D					<b>0,125</b>	560
ARSENIC (As)	N.D					<b>0,125</b>	47
BARIUM (Ba)	N.D					<b>0,125</b>	18750
CADMIUM (Cd)	N.D					<b>0,125</b>	17
CHROMIUM (III)	N.D					<b>0,005</b>	460
CHROMIUM (VI)	N.D					<b>0,0005</b>	0,053
LEAD (Pb)	N.D					<b>0,125</b>	23
MERCURY (Hg)	N.D					<b>0,125</b>	94
SELENIUM (Se)	N.D					<b>0,125</b>	460
ALUMINIUM (Al)	N.D					<b>0,125</b>	28130
BORON (B)	N.D					<b>0,125</b>	15000
COBALT (Co)	N.D					<b>0,125</b>	130
COPPER (Cu)	N.D					<b>0,125</b>	7700
MANGAN (Mn)	N.D					<b>0,125</b>	15000
NICKEL (Ni)	N.D					<b>0,125</b>	930
STRONTIUM (Sr)	N.D					<b>0,125</b>	56000
TIN (Sn)	N.D					<b>0,125</b>	180000
ORGANIC TIN	N.D					<b>0,02</b>	12
ZINC (Zn)	N.D					<b>0,125</b>	46000
<b>PASS / FAIL</b>	<b>PASS</b>						

\*The reported values were calculated with the sum of the immigration values.

\*N.D = Not Detected

\*All results below the reporting limit are written in N.D.

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### Numunenin Fotoğrafi



#TEST RAPORU SONU#