

Test Report

Report No.: TJD01F009939

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Applicant : PRODUCT VISION INTERNATIONAL LIMITED


Address : RM 1603, 16/F SAXON TOWER, 7 CHEUNG SHUN ST. LAI CHI KOK, KLN. HK

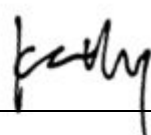
Report on the submitted sample(s) said to be:

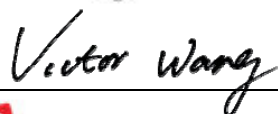
Sample Name : Polyester Fabric with PVC
Country of Origin : China
Exported to : U.S.A
Sample Received Date : Nov. 14, 2013
Sample Tested Date : Nov. 14, 2013 to Nov. 18, 2013

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Tested by 

Reviewed by 

Approved by 

Date 2013-11-18

Victor Wang
Lab Manager

No. 1667076813

Centre Testing International (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Executive Summary:

TEST REQUEST

European Standard on Safety of Toys:

- EN 71-3:2013 Migration of certain elements

CONCLUSION

PASS

***** For Further Details, Please Refer To the Following Page(s) *****

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▼ Migration of certain elements

As specified in European standard on safety of toys EN 71-3:2013 - Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and GC-MS.

Category III: scraped-off toy material

Tested Item	Result (mg/kg)	MDL	Limit
	Yellow fabric with yellow PVC film backing	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	50	70000
Antimony (Sb)	ND	5	560
Arsenic (As)	ND	5	47
Barium (Ba)	ND	50	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	1	17
Chromium (Cr) ^{#1}	ND	0.2	--
Chromium (III) ^{#2}	--	--	460
Chromium (VI)	ND	0.001	0.2
Cobalt (Co)	ND	5	130
Copper (Cu)	ND	50	7700
Lead (Pb)	ND	5	160
Manganese (Mn)	ND	50	15000
Mercury (Hg)	ND	5	94
Nickel (Ni)	ND	5	930
Selenium (Se)	ND	5	460
Strontium (Sr)	ND	50	56000
Tin (Sn) ^{#3}	ND	2	180000
Organic tin (TBT) ^{#4}	ND	0.2	12
Zinc (Zn)	ND	50	46000

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Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Filter paper was used instead of membrane filter in lab testing.
- ^{#1} Chromium (Cr) content can be used for screen test for hexavalent chromium and trivalent chromium analysis and to show compliance with the requirement of EN 71-3:2013.
- ^{#2} Chromium (Cr) = Hexavalent chromium (Cr (VI)) + Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- ^{#3} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013.
- ^{#4} The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

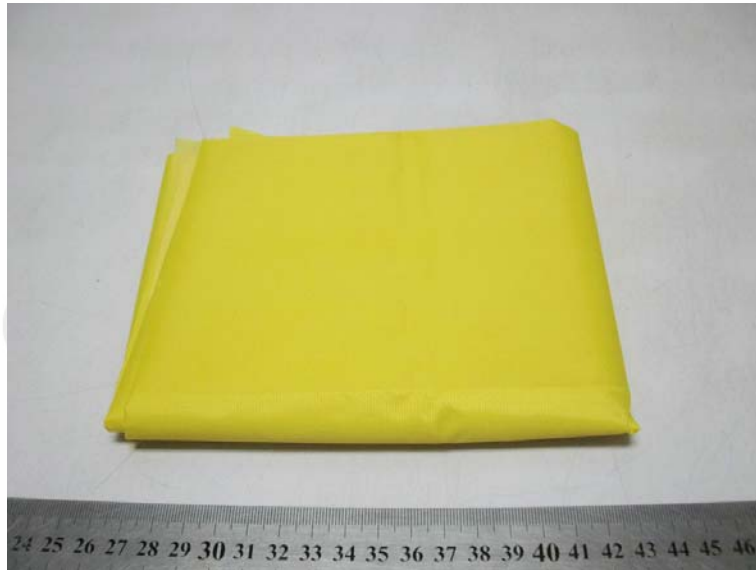
Organic tins tested under EN 71-3:2013
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)

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Photo of the sample



*** End of Report ***

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