



# Test Report

No. F690101/LF-CTSAYHA15-11663

Issued Date: 2015. 12. 24

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## HYOSUNG R&D BUSINESS LABS

74, Simin-daero, Dongan-gu  
Anyang-si, Gyeonggi-do  
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

**SGS File No.** : AYHA15-11663  
**Sample Description** : M330A  
**Style no./Item no.** : -  
**Order No.** : -  
**Buyer** : -  
**Manufacturer** : -  
**Country of Origin** : -  
**Country of Destination** : -  
**Received Date** : 2015. 12. 17  
**Test Period** : 2015. 12. 17 to 2015. 12. 24  
**Test Method** : For further details, please refer to following page (s)  
**Test Results** : For further details, please refer to following page (s)  
**Result Summary** :

Test Requested	Conclusion
<b>As specified by client, selected parts of the submitted sample(s) with reference to Safety of Toys, EN 71-9:2005+A1:2007 – Organic Chemical Compounds – Requirements.</b>	--
1) To determine Monomers (Migration) in the submitted samples.	<b>PASS</b>
2) To determine Plasticizers (Migration) in the submitted samples.	<b>PASS</b>
3) To determine Solvents (Migration) in the submitted samples.	<b>PASS</b>

SGS Korea Co., Ltd

Jeff Jang / Chemical Lab Mgr

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## Monomers migration

Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005

Test Item(s)	CAS Number	MDL (mg/L)	Result(s) (Unit : mg/L)	Limit (mg/L)
			<u>1</u>	
Acrylamide	79-06-1	0.02	N.D.	0.02
Bisphenol A	80-05-7	0.1	N.D.	0.1
Formaldehyde	50-00-0	1	N.D.	2.5
Phenol	108-95-2	1	N.D.	15
Styrene	100-42-5	0.1	N.D.	0.75
<b>Conclusion</b>	-	-	<b>PASS</b>	-

## Plasticizers migration

Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005

Test Item(s)	CAS Number	MDL (mg/L)	Result(s) (Unit : mg/L)	Limit (mg/L)
			<u>1</u>	
Triphenyl phosphate	115-86-6	0.01	N.D.	0.03
Tri-o-cresyl phosphate	78-30-8	0.01	N.D.	0.03
Tri-m-cresyl phosphate	563-04-2	0.01	N.D.	0.03
Tri-p-cresyl phosphate	78-32-0	0.01	N.D.	0.03
<b>Conclusion</b>	-	-	<b>PASS</b>	-

Note: (1) N.D. = Not detected. (<MDL)  
 (2) MDL = Method Detection Limit

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## Solvents migration

Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005

Test Item(s)	CAS Number	MDL (mg/L)	Result(s) (Unit : mg/L)	Limit (mg/L)
			1	
Trichloroethylene	79-01-6	0.01	N.D.	0.02
Dichloromethane	75-09-2	0.02	N.D.	0.06
2-Methoxyethyl acetate	110-49-6	0.25 (total)	N.D.	0.5 (total)
2-Ethoxyethanol	110-80-5			
2-Ethoxyethyl acetate	111-15-9			
Bis(2-methoxyethyl) ether	111-96-6			
2-Methoxypropyl acetate	70657-70-4			
Methanol	67-56-1	0.5	N.D.	5
Nitrobenzene	98-95-3	0.01	N.D.	0.02
Cyclohexanone	108-94-1	2	N.D.	46
3,5,5-Trimethyl-2-cyclohexene-1-one	78-59-1	0.1	N.D.	3
Toluene	108-88-3	0.1	N.D.	2
Ethylbenzene	100-41-4	0.1	N.D.	1
Xylene (all isomers)	various	0.3	N.D.	2 (total)
<b>Conclusion</b>	-	-	<b>PASS</b>	--

Note: (1) N.D. = Not detected. (<MDL)  
 (2) MDL = Method Detection Limit

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**Picture of Sample as Received :**



\*\*\* End of Report \*\*\*

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