



NM LABORATORY SDN. BHD. (563645-P)

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LABORATORY TESTINGS AND ANALYSIS CONSULTANCY



MS ISO/IEC 17025
TESTING
SAMM NO. 188

TEST REPORT

Certificate No : SP1007-0185

To : PERCEPTIVE PROFILE SDN BHD

Page No : 1 of 3

PT 19251, P'siaran Batu Gajah Perdana 10
Taman Perindustrian Batu Gajah Perdana,
31550 Pusing, Perak.

Date Of Issue : 15/07/2010

Attn : Mr Cheah Choong Yueh (MD)

Customer's Sample Description :

PVC EDGING

Date Of Sample Received : 09/07/2010

Date Of Testing : 09/07/2010 To 15/07/2010



Objective of Test

- Determination of Cadmium, Mercury, Chromium, Lead, Antimony, Arsenic and Selenium content in accordance with Consumer Product Safety Improvement Act of 2008 (CPSIA) Section 8.3. and ASTM F963-07 Section 4.3.5
- Determination of Total Lead accordance with BS EN 71-3 : 1995 Specification.
- Determination of Phthalates accordance with Consumer Product Safety Improvement Act of 2008 (CPSIA) Section 108 (a) and (b) (1).

Standard Method / Equipment / Technique Description

Standard Method	Method Description / Title
ASTM F963-07 (Section 8.3)	Standard Consumer Safety Specification for Toy Safety (method to dissolve soluble matter).
ICP-AES	Inductively Coupled Plasma - Atomic Emission Spectrometry
USEPA Method 3052	Microwave assisted acid digestion of siliceous and organically based matrices
USEPA Method 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)
CPSC-CH-E1001-09	Standard Operating Procedure for determination of phthalate
GC-MS	Gas Chromatograph Mass Spectrometry

for NM LABORATORY SDN BHD

Test performed by : Khoh Wai Hwa
Lim Sie Hui

Approved By :

Tan Hooi Cheng, M.Sc., AMIC
Deputy Technical Manager
IKM No.A/2829/5568/2009



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Analysis Result

Type of Analysis/ Parameters/ Properties measured	Analysis Results	Unit	Preconditioning Method/ Technique	Measurement Method/ Equipment	MDL; mg/kg
Cadmium (as Cd)	ND	mg/kg	ASTM F963-07 (Section 8.3)	ICP-AES	0.5
Mercury (as Hg)	ND				5
Chromium (as Cr)	ND				1
Lead (as Pb)	ND				5
Barium (as Ba)	ND				0.5
Antimony (as Sb)	ND				5
Arsenic (as As)	ND				5
Selenium (as Se)	ND				10

Type of Analysis/ Parameters/ Properties measured	Analysis Results	Unit	Preconditioning Method / Technique	Measurement Method / Equipment	EN71 - 3 Specification; mg/kg
Lead (as Pb)	ND(<1)	mg/kg	USEPA Method 3052	USEPA Method 6010B	90

Chemical compound	Analysis Results	Unit	Preconditioning Method	Measurement Method	MDL; % wt	Permissible maximum concentration
Bis (2-ethylhexyl) Phthalate (as DEHP)	0.01	%wt	CPSC-CH-E1001 -09	GC/MS	0.01	Shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1 % by mass of the plasticized material, in toys and childcare articles.
2,3-Dibutyl Phthalate (as DBP)	ND					Shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1 % by mass of the plasticized material in toys and childcare articles which can be placed in the mouth by children.
Benzyl Butyl Phthalate (as BBP)	ND					
Diisonocyl Phthalate (as DINP)	ND					
Diisodecyl Phthalate (as DIDP)	ND					
Di-n-octyl Phthalate (as DNOP)	ND					

NOTE: The above analysis results relate only to the sample(s) submitted by customer.
Detected or below stated LOQ (Limit Of Quantitation) / MDL (Method Detection Limits). Symbol "<" denotes less than.

Symbol "*" Denotes Non SAMM Accredited Test.



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Conclusion

- (i) For Cadmium, Mercury, Chromium, Lead, Barium, Antimony, Arsenic and Selenium test
The sample analysis result did not exceed the Heavy Metals Content limit as stipulated in CPSIA of 2008 Section 8.3. and ASTM F963-07 Section 4.3.5
- (ii) For Total Lead test
The result obtained for total concentration of Pb is lower than the EN 71-3 : 1995 specification. Thus, the above sample summited complies to toxicity requirement of BS EN 71-3 : 1995 eventually.
- (iii) For Phthalates test
The sample analysis results for any Phthalates (DBP,BBP,DEHP) did not exceed Phthalate level of 0.1% as per CPSIA Section 108 (a) and Phthalates (DINP,DIDP,DNOP) also did not exceed Phthalate level of 0.1% as per CPSIA Section 108 (b)(1) content requirements.

- End of Report -