

 Technical Report:
 (9615) 206-0222
 AUGUST 04, 2015

 Date Received:
 JULY 25, 2015
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NGUYEN VO HOAN KIM

CN DNTN SAN XUAT THUONG MAI KEO DAN VA NHUA TONG HOP NGHIEP PHAT 24/15 KHU PHO BINH PHUOC B, PHUONG BINH CHUAN, THUAN AN, BINH DUONG

Sample Description:	SON DAC CHUNG TRANG BOI	NG - SDC 03 - TREN KIM	LOAI (NHOM)
Vendor:	CN DNTN SAN XUAT	Sample Size:	/
	THUONG MAI KEO DAN VA	•	
	NHUA TONG HOP NGHIEP		
	PHAT		
Manufacturer:	SON HOA VIET	VPN:	/
Buyer:	/	SKN/SKU No.:	/
Agent:	/		
Labeled Age Grade:	/	PO No.:	/
Appropriate Age Grade:	/	Ref #:	/
Client Specified Age Grade:	/	Country of Origin:	VIETNAM
Tested Age Grade:	/	Assortment No.:	/
UPC Code:	/	Department No.:	/
Phase of Production:	/	ITĖM#:	/
Color:	/	Date of Production:	/
Program:	/	Model/Style#:	/
Previous No:	N/A	Country of Destination:	/

#### TEST:

- ASTM D3359 Crosscut Adhesion test
- H-1009 Effect Of Heat Test

- ASTM F963-11 Heavy Metal Content In Surface Coating
- Fira standard 6250-2005, Impact test
- Resistance to Corrosion

## **EXECUTIVE SUMMARY:**

The sample(s) MEETS the following requirement(s):

- The heavy metals content in surface coating requirements of ASTM F963-11, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The requirements of ASTM B117-07 modified / CPSD-HL-01010-MTHD, "Resistance to Corrosion".
- The requirement of the H-1009, Effect Of Heat Test.

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

- The criteria requirement of coating adhesion test in test result table.
- The requirement of the Fira standard 6250-2005, Impact test.

### Note(s):

- This report includes the test result(s) which was conducted & reviewed by Analytical department.

### **Bureau Veritas**

Consumer Products Services (VN) Ltd. Lot C7-C9, Conurbation 2, Cat Lai Industrial Zone, District 2, Ho Chi Minh City, Vietnam Tel: 84-8-37421604~6 Fax: 84-8-37421603 website:www.bureauveritas.com/cps This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://cps.bureauveritas.com">http://cps.bureauveritas.com</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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## **BVCPS** Contact information for this report.

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (VN) LTD.

TERRY NGUYEN

**AUTHORIZE REPORT APPROVER** 



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## SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

Test Item(s)	Sample description/ Location	Material	Style(s)
1001	White coating / Metal panel	Coating	-

### **TEST RESULT**

Total Heavy Metals Content - Initial Screening of ASTM International Standard ASTM F963-11, Section 4.3.5.1(2) for Soluble Heavy Metals Content in Surface Coating

**Test Method**: ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex 7.

Total Element(s)	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1000	75	60	60	90	60	500

-	Unit	Result	
Test Item(s)	-	1001	
Parameter	-	-	
Total Arsenic (As)	mg/kg	ND	
Total Barium (Ba)	mg/kg	ND	
Total Cadmium (Cd)	mg/kg	ND	
Total Chromium (Cr)	mg/kg	ND	
Total Mercury (Hg)	mg/kg	ND	
Total Lead (Pb)	mg/kg	ND	
Total Antimony (Sb)	mg/kg	ND	
Total Selenium (Se)	mg/kg	ND	
Conclusion	-	PASS	

Note / Key:

ND = Not detected ">" = Greater than NR = Not requested

% = percent g = gram(s) mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg): Each (As, Cr & Hg): 10; Each (Ba & Se): 40; Each (Cd, Pb & Sb): 20



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# RESULT(S):

Evaluation	Citation / Method	Criteria Results		Rating
Resistance to corrosion	ASTM B117-11 modified / CPSD - HL – 01010-MTHD	[ Applicable to samples / sample components constructed of metal or samples with metallic coatings that can be exposed to the environment ] Shall withstand 24 hours in 5 % salt spray (fog) with no noticeable oxidation / corrosion / visual changes. Modification = 5 % salt spray (fog).	M (No visual changes)	PASS
Adhesion test	ASTM D3359- 02 method B	Cutting pattern shall be 2mm x 2mm Record as data	Grade 4.0	DATA
Effects of heat	CPSD-HL- 01009-MTDH	24 hours @ 105 °C – No failure or visual change	M (No visual changes)	PASS
Impact test	Fira standard 6250-2005	Steel ball bearing diameter 19.1mm will free fall to the sample from a height of 2m.	Grade 3	DATA

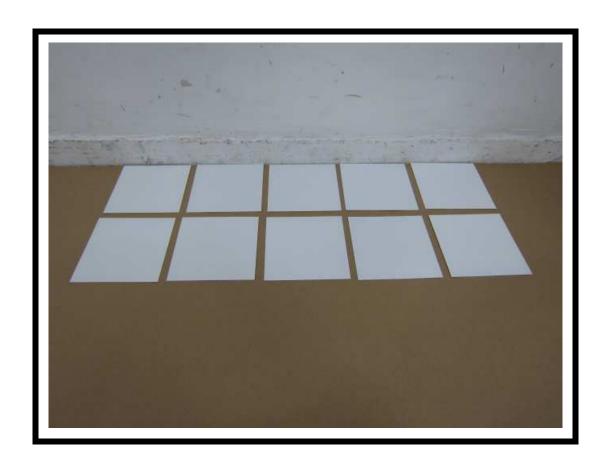
# Results Key:

М	Meets	NM	Does Not Meet
NA	Not Applicable	NT	Not Tested
С	Claimed	R	Recorded

	CLASSIFICATIO	N OF ADHESION TEST RESULTS
CLASSIFICATION	PERCENT AREA REMOVED	SURFACE OF CROSS-CUT AREA FROM WHICH FLAKING HAS OCCURRED FOR SIX PARALLEL CUTS AND ADHESION RANGE BY PERCENT
5B	0% None	
48	Less than 5%	
3В	5 - 15%	
28	15 - 35%	
18	35 - 65%	
ОВ	Greater than 65%	

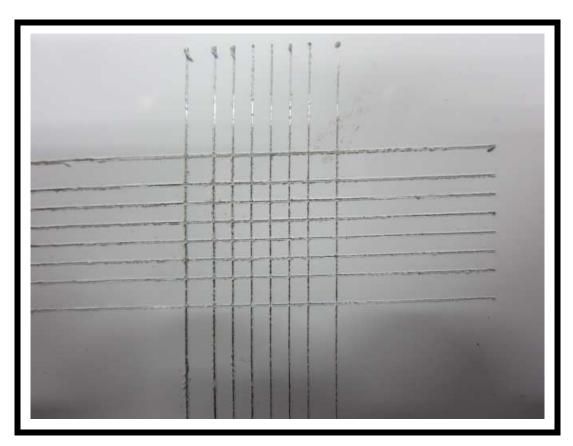


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**ADHESION TEST**