Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company
Members of :
American National Standards Institute
American Society for Testing and Materials
British Standards Institute
Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report Number: HKGH01134887

Applicant: VIVA HEALTHCARE PACKAGING (HK) LTD
16/F E ON FTY BLDG
14 WONG CHUK HANG RD
HK
Attn: MS ANITA CHOI

Date: Apr 14, 2011

Sample Description:
Thirty (30) pieces of submitted sample said to be :
Item Name : **PP Tube with in-mold label**
Country of Origin : Hong Kong.
Market : USA.

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Tests conducted:
As requested by the applicant, refer to attached page(s) for details.
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To be continued

For and on behalf of :
Intertek Testing Services HK Ltd.

Karen S.C. Ng
General Manager

Intertek Testing Services Hong Kong Ltd.
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2786 1903 Website: www.intertek.com

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Conclusion:

Tested Samples	Standard	Result
Tested components of submitted samples	Model Toxics in Packaging Legislation (packaging materials) for toxic elements test	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 for total Lead content in non-surface coating materials (substrate)	Pass

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Comment:

The testing scope of the following standards were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

- U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 requirement on phthalate.
- U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 3.1a and 3.1b for Olefin Copolymer.

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Tests Conducted

1 Toxic Elements Analysis

As per Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result in ppm		Limit
	(1)	(2)	(ppm)
Lead (Pb)	<5	<5	--
Cadmium (Cd)	<5	<5	--
Mercury (Hg)	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	<16	100

ppm = parts per million
< = Less than

Tested Components :

(1) White plastic (cap).
(2) Translucent plastic with inaccessible coatings (tube).

Date sample received : Apr 01, 2011
Testing period : Apr 01, 2011 to Apr 08, 2011

2 Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

As per Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.1 and/or CPSC-CH-E1001-08.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<10	300
(2)	<10	300

As of August 14, 2011, the limit for total Lead content will be lowered to 100 ppm unless the CPSC determines that a limit of 100 ppm is not technologically feasible for a product or product category.

ppm = parts per million
< = Less than

Tested Components :

(1) White plastic (cap).
(2) Translucent plastic with inaccessible coatings (tube).

Date sample received : Apr 01, 2011
Testing period : Apr 01, 2011 to Apr 08, 2011

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Tests Conducted

3 Phthalate Content Test

With reference to Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)		Limit (%, w/w) (max.)
	(1)	(2)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

< = Less than

Tested Components :

(1) White plastic (cap).
(2) Translucent plastic with inaccessible coatings (tube).

Date sample received : Apr 01, 2011
Testing period : Apr 01, 2011 to Apr 07, 2011

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Tests Conducted

4 Microbiological examination of nonsterile products: microbial enumeration tests and tests for specified microorganisms

With reference to *United States Pharmacopoeia* XXXIV (2011), Chapter 61 & 62.

Test Item		Result$^{\Delta}$
(1)	Total Aerobic Microbial Count (per piece)	<10 CFU#
(2)	Mould and Yeast Count (per piece)	<10 CFU
(3)	*Staphylococcus aureus* (per piece)	Absent
(4)	*Pseudomonas aeruginosa* (per piece)	Absent
(5)	*Salmonella* (per piece)	Absent
(6)	*Escherichia coli* (per piece)	Absent
(7)	Bile-Tolerant Gram-Negative Bacteria (per piece)	Absent
(8)	Clostridia (per piece)	Absent
(9)	*Candida Albicans* (per piece)	Absent

Remark : # = No colony was detected with 1mL of the rinsed sample solution
CFU = Colony Forming Unit
< = Less than

Δ = Total 10 pieces of inner surface of submitted samples were swabbed with 100 ml sterile diluent which was then used for laboratory testing.

Sample Received Condition : Sample in sealed plastic bag.

Date sample received : Apr 01, 2011
Testing period : Apr 06, 2011 to Apr 13, 2011

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Tests Conducted

5 Test for F.D.A. Regulation on Olefin Copolymer

With reference to the U.S. Food and Drug Administration 21 CFR Part 177.1520 Clause 3.1a and 3.1b.

		Result		Limit
		(1)	(2)	
(A)	Density	Complied	Complied	0.85 - 1.00 (3.1a) 0.9 - 1.00 (3.1b)
(B)	Maximum extractable fraction in n-hexane, % (w/w)	1.7	2.9	5.5
(C)	Maximum extractable fraction in xylene, % (w/w)	6.2	23	30

Tested components :

(1) White plastic (Cap).
(2) Translucent plastic (Tube).

Date sample received : Apr 01, 2011
Testing period : Apr 01, 2011 to Apr 12, 2011

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End of report

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