

Test Report

No. HL1640718

Date: March 11, 2009

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OTS COMPANY INC.
293 INDUSTRIAL DR. LEXINGTON, SC 29072

The following sample was submitted and identified on behalf of the client as PLAYGROUND SURFACE:
POLYURETHANE BOUND RUBBER GRANULE & SHREDS.

SGS Job No. : 1640718
Sample Condition : As per attached photograph
Color : Multicolor plus black
Sample/ Style No. : BRT-/ MEL/ MET/ RW
Sample Receiving Date : March 6, 2009
Testing Period : March 6 - 11, 2009

Test Requested : As specified by client, to determine lead in accessible substrate materials and phthalates content in US Public Law 110-314 (HR 4040 'Consumer Product Safety Improvement Act of 2008').

Test Results : Please refer to next page(s).

Results summary:

Test item	Result
Lead in substrate materials	PASS
Phthalates	PASS

Signed for and on behalf of
SGS (Thailand) Ltd.



Pornpana Lirathpong
Hardline Testing Manager

Test Results :

1) Lead in accessible substrate materials

Method: Acid digestion followed by Atomic Absorption Spectrometry or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry Analysis.

Test item	<u>1</u>	<u>2</u>	<u>3</u>	Permissible Limit**
Lead (Pb)	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	---

Test item	<u>4</u>	<u>5</u>	<u>6</u>	Permissible Limit**
Lead (Pb)	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	---

Test item	<u>7</u>	<u>8</u>	<u>9</u>	Permissible Limit**
Lead (Pb)	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	---

Test item	<u>10</u>	<u>11</u>	<u>12</u>	Permissible Limit**
Lead (Pb)	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	---

Test item		<u>13</u>		Permissible Limit**
Lead (Pb)		ND		0.03 %
Comment		PASS		---

** Comment is based on the 0.03 % limit requirement, effective 14 August, 2009. The requirements for lead in substrate in children’s products is summarized below

Scope	Requirement	Effective date
Lead in substrate other than paint / similar surface coating material	≤ 0.06 %	10 February 2009
	≤ 0.03 %	14 August 2009
	≤ 0.01%	14 August 2011

Sample Description :

1. black rubber
2. violet rubber
3. grey rubber
4. yellow rubber
5. black rubber
6. blue rubber
7. red rubber
8. cream rubber
9. dark yellow rubber
10. brown rubber
11. orange rubber
12. white rubber
13. green rubber

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- Note :
1. % = percentage by weight
 2. ND = not detected
 3. Method Detection Limit = 0.001%

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2) Phthalates

Method: With reference to ASTM D3421. Analysis was performed by Gas Chromatography / Mass Spectrometry.

Toys and childcare articles

<u>Test item</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

<u>Test item</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>Permissible Limit</u>
Diisononyl Phthalate (DINP)	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Sample Description :

1. black rubber
2. violet rubber
3. grey rubber

Note:

1. % = percentage by weight
2. ND = not detected
3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.001%
4. Method Detection Limit for each of DINP and DIDP = 0.01%
5. Effective Date = 10 February 2009

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Toys and childcare articles

<u>Test item</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

<u>Test item</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Permissible Limit</u>
Diisononyl Phthalate (DINP)	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Sample Description :

- 4. yellow rubber
- 5. black rubber
- 6. blue rubber

Note:

- 1. % = percentage by weight
- 2. ND = not detected
- 3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.001%
- 4. Method Detection Limit for each of DINP and DIDP = 0.01%
- 5. Effective Date = 10 February 2009

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Toys and childcare articles

<u>Test item</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

<u>Test item</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>Permissible Limit</u>
Diisononyl Phthalate (DINP)	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Sample Description :

- 7. red rubber
- 8. cream rubber
- 9. dark yellow rubber

Note:

- 1. % = percentage by weight
- 2. ND = not detected
- 3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.001%
- 4. Method Detection Limit for each of DINP and DIDP = 0.01%
- 5. Effective Date = 10 February 2009

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Toys and childcare articles

<u>Test item</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

<u>Test item</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Permissible Limit</u>
Diisononyl Phthalate (DINP)	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.1%
Conclusion	PASS	PASS	PASS	---

Sample Description :

- 10. brown rubber
- 11. orange rubber
- 12. white rubber

Note:

- 1. % = percentage by weight
- 2. ND = not detected
- 3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.001%
- 4. Method Detection Limit for each of DINP and DIDP = 0.01%
- 5. Effective Date = 10 February 2009

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Toys and childcare articles

<u>Test item</u>		<u>13</u>		<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)		ND		0.1%
Benzylbutyl Phthalate (BBP)		ND		0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)		ND		0.1%
Conclusion		PASS		---

Toys that can be placed in the mouth and childcare articles

<u>Test item</u>		<u>13</u>		<u>Permissible Limit</u>
Diisononyl Phthalate (DINP)		ND		0.1%
Di-n-octyl Phthalate (DNOP)		ND		0.1%
Diisodecyl Phthalate (DIDP)		ND		0.1%
Conclusion		PASS		---

Sample Description :

13. green rubber

Note:

1. % = percentage by weight
2. ND = not detected
3. Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.001%
4. Method Detection Limit for each of DINP and DIDP = 0.01%
5. Effective Date = 10 February 2009

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Photo Appendix



*** End of Report ***

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