



**BUREAU
VERITAS**



TEST REPORT

Technical Report: (5510)229-0646

August 20, 2010

Date Received: August 16, 2010

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Ms Chang
Tai Xiang Rubber (Shen Zhen) Co. Ltd
Lisong Lang Industrial Area Gong Ming Town,
ShenZhen City China

Sample Description: VulcaMix ® OH2 – GR
Product End Use: For Rubber Sole
Age Group: Adult; Child (<12 or <3)
Season: /
Spec. Factory: BROWN
Color: /
NB Mat Name_Color Key: /
NB Mat No. & Color Key: /
Material Description: /
Material Type: /
Material Subtype: /
Style No.: /
Sample Type: /
NB Purchase Order No.: /
Vendor Name: /
Molder/ Compounder: /
Country of Origin: /
Country of Destination: /
Test Period: August 16, 2010 – August 20, 2010
No. of Working Days: 5
Buyer: NEW BALANCE
NB Test Category: Supplier Internal
Retest No.: /
Overall Conclusion: PASS

REMARK

If there are questions or concerns on this report, please contact:

(852) 2494 5783
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BUREAU VERITAS HONG KONG LIMITED

PREPARED BY: _____ Ed _____

DR. LEE SIU MING
SENIOR MANAGER, CHEMICAL AND ANALYTICAL SERVICES

NBL

Photo of the Submitted Sample



SUMMARY OF TEST RESULTS			
NEW BALANCE RSL 5.0 - REQUIREMENT			
TEST REQUESTED – CHEMICAL	CONCLUSION	TEST ITEM(S)	FAILED RESULT(S)
TOTAL HEAVY METALS (Cd, Pb, Hg)	PASS	1	
NP, OP, NPEO & OPEO	PASS	1	
ORGANOTIN (TBT & TPhT, DBT & MBT, DOT)	PASS	1	
SUM OF PHTHALATES	PASS	1	
PAHs	PASS	1	

Note: NA = Not Applicable

NR = Not Requested

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY:

ITEM	ITEM DESCRIPTION
1	Pale creamy rubber (VulcaMix ® OH2 – GR)



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TEST RESULT

NP, OP, NPEOs & OPEOs

Test Method I : For Textile or Leather:
Methanol extraction and analysis by Liquid Chromatograph Mass Spectrometer (LC-MS)

Test Method II : For Plastics, Print, Paint or Ink:
Tetrahydrofuran/ Acetonitrile extraction and analysis by Liquid Chromatograph Mass Spectrometer (LC-MS)

Tested Item(s) : 1 Pale creamy rubber (Volcanic oH2-GR)

Maximum Limit:	OP and NP: 1000 mg/kg (Sum) OPEOs and NPEOs: 1000 mg/kg (Sum)				
Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
1	II	ND	ND	mg/kg	PASS

Note:

ND = Not detected ">" = More than Conc. = Concentration
mg/kg = milligram per kilogram
Detection Limit (mg/kg): Each 100; Sum (OP & NP) 200; Sum (OPEOs & NEPOs) 200

Remark:

- The list of alkylphenols and alkylphenol ethoxylates is summarized in table of Appendix.
- Dr. Ehrenstofer product code: 15629000, is used for NP quantification.



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TEST RESULT

Organotin (TBT & TPhT, DBT & MBT, DOT)

Test Method : Ethanol extraction, derivatisation and analysis by GC-MS or LC-MS.

Tested Item(s) : 1 Pale creamy rubber (Volcanic oH2-GR)

Maximum Limit:	MBT and DBT: 1.0 mg/kg (Each) TBT and TPhT: 0.5 mg/kg (Sum) DOT: 1000mg/kg			
Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	mg/kg	PASS

Note:

ND = Not detected

">" = More than

Conc. = Concentration

mg/kg = milligram per kilogram

Detection Limit (mg/kg): Each 0.02; Sum (TBT & TPhT) 0.04

Remark:

- The list of organotin compounds is summarized in table of Appendix.



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TEST RESULT

Sum of Phthalates

Test Method : Extraction with THF/ACN and analysis by Gas Chromatograph Mass Spectrometer (GC-MS), confirmation by Liquid Chromatograph Mass Spectrometer (LC-MS)

Tested Item(s) : 1 Pale creamy rubber (Volcanic oH2-GR)

Limit:	Children (0 – 12 Years): BBP, DBP, DEHP, DNOP, DINP, DIDP, DnHP and DIBP: Less than 500 mg/kg (Sum)
	Adults: BBP, DBP, DEHP, DNOP, DINP, DIDP, DnHP and DIBP: Less than 1000 mg/kg (Sum)

Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	mg/kg	PASS

Note:

ND = Not detected

">" = More than

Conc. = Concentration

mg/kg = milligram per kilogram

Detection Limit (mg/kg): Each 50, Sum 150

Remark:

- The list of phthalates is summarized in table of Appendix.



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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs) Content

Test Method : German ZEK 01.2-08

Tested Item(s) : 1 Pale creamy rubber (Volcanic oH2-GR)

Maximum Limit:	Benzo (a) pyrene: 1 mg/kg All listed PAHs: 10 mg/kg (Sum)			
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Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	mg/kg	PASS

Note:

ND = Not detected

">" = More than

Conc. = Concentration

mg/kg = milligram per kilogram

Detection Limit (mg/kg): Each 0.1; Sum 0.1

Remark:

- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.

END



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APPENDIX

List of Alkylphenols:

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Octylphenol (OP)	27193-28-8	2	Nonylphenol (NP)	25154-52-3

List of Alkylphenol Ethoxylates:

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Octylphenoethoxylates (OPEOs)	9002-93-1	2	Nonylphenoethoxylates (NPEOs)	9016-45-9

List of Organotin Compounds:

No.	Name of Analytes	No.	Name of Analytes
1	Monobutyltin (MBT)	4	Triphenyltin (TPhT)
2	Dibutyltin (DBT)	5	Diocetyl tin (DOT)
3	Tributyltin (TBT)	-	-

List of Phthalates:

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	5	Di-iso-nonyl phthalate (DINP)	28553-12-0
2	Dibutyl phthalate (DBP)	84-74-2	6	Di-iso-decyl phthalate (DIDP)	26761-40-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	7	Di-isobutyl phthalate (DIBP)	84-69-5
4	Di-n-octyl phthalate (DNOP)	117-84-0	8	Di-n-hexyl phthalate (DnHP)	84-75-3

List of Polynuclear Aromatic Hydrocarbons:

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Naphthalene	91-20-3	9	Benzo (a) anthracene	56-55-3
2	Acenaphthylene	208-96-8	10	Chrysene	218-01-9
3	Acenaphthene	83-32-9	11	Benzo (a) pyrene	50-32-8
4	Fluorene	86-73-7	12	Indeno (1,2,3-cd) pyrene	193-39-5
5	Phenanthrene	85-01-8	13	Dibenzo (a,h) anthracene	53-70-3
6	Antracene	120-12-7	14	Benzo (g,h,i) perylene	191-24-2
7	Fluoranthene	206-44-0	15	Benzo (b) fluoranthene	205-99-2
8	Pyrene	129-00-0	16	Benzo (k) fluoranthene	207-08-9