

Test Report

No. KE/2014/C1604

Date :Dec 19, 2014

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TAIXIANG RUBBER (SHEN ZHEN) CO., LTD.
LISONG LANG INDUSTRIAL AREA GONG MING TOWN,SHENZHEN CITY,CHINA

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Report on the submitted sample said to be:

Sample Description : VulcaPellet
Amount of Sample : One
Buyer's Name / Division : Adidas Footwear
Summary of Test Result : **Pass**
Failure Test Items : ---
Age Group : All Ages
Material Name / Code : VulcaPellet®IS-80
Color Name / Code : Yellow
Supplier Name : Taixiang Rubber (Shen Zhen) Co., Ltd.
Country of Origin : China
Country of Destination : ---
Material Component : VulcaPellet
Sample Classification : Rubber materials (201)
Test Required Key Code No. : Key code 201 under Adidas A-01 Test Standard 2014
Report Type : Full Test (FT)
Full Test Report No. : ---
(Only for SC*/NT*/IT*/ST*) : ---
P.O. No. : ---
Additional Information : ---
Sample Received Date : Dec 16, 2014
Sample Tested Date : Dec 16, 2014~Dec 19, 2014
Sample Submitted by : Taixiang Rubber (Shen Zhen) Co., Ltd.

Note: (SC*)(NT*)(IT*)(ST*) mark the full test reports No. ; (RT) this application just for T1 shoes factory; (SI) it is for supplier only and will not acceptable for adidas.

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Summary of Test Result: (Detail test results on next page)

Test Parameter	Test Method	Conclusion (Pass/Fail)
Extractable Heavy Metals	Extraction in acidic perspiration solution: DIN EN ISO 105 E04:2013 in acid solution, Analysis by ICP-OES: DIN EN ISO 12846:2012/ DIN EN ISO 11885:2009	Pass
Total Cadmium	Polymers: Pre-treatment: EN 1122:2002 Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Total Lead	Non-metal parts: Pre-treatment: Microwave digestion with H ₂ O ₂ /HNO ₃ Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Organotin Compounds	ISO/TS 16179:2012	Pass
Σ Phthalates	dichloromethane with ASE Measurement with GC-MS	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylate (NPEO), Octylphenol ethoxylate (OPEO)	NP,OP: Solvent Extraction, Analysis by LC-MS NPEO,OPEO: Textiles: Draft DIN EN ISO 18254 (2014)	Pass
Regulated Polycyclic Aromatic Hydrocarbons (PAHs) of high concern	ZEK 01.4-08	Pass
Σ of Polycyclic Aromatic Hydrocarbons (PAHs)	ZEK 01.4-08	Pass

Sample Photo

KE/2014/C1604




Jerry Tung / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited

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Component List

Component No.	Component	Material
1	Yellow VulcaPellet	VulcaPellet

Detail Test Results:

Extractable Heavy Metals

Test Method: Extraction in acidic perspiration solution - DIN EN ISO 105-E04:2013.
Analysis by ICP-OES / ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012.

	Result
	1
Cadmium	n.d.
Chromium	n.d.
Lead	n.d.
Mercury	n.d.
Conclusion	PASS

Note: n.d. = not detected
* = Exceeds the TLV

Client's Requirement	Infants (ppm)	Adults (ppm)	Detection Limit (ppm)
Cadmium	0.1	0.1	0.1
Chromium	1.0	2.0	1.0
Lead	0.2	1.0	0.2
Mercury	0.02	0.02	0.02

Total Cadmium

Test Method: Polymers: Acid digestion – EN 1122:2002
Analysis by ICP-OES or AAS - DIN EN ISO 11885:2009.

	CAS No.	Result
		1
Total Cadmium	--	n.d.
Conclusion		PASS

Note: n.d. = not detected
* = Exceeds the TLV
Detection Limit = 5 ppm

Client's Requirement 40 ppm

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Total Lead

Test Method: Non metal: Pretreatment by Microwave digestion with H₂O₂/HNO₃
Analysis by ICP-OES: DIN EN ISO 11885: 2009

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Total Lead	--	n.d.
Conclusion		PASS

Note: n.d. = not detected
* = Exceeds the TLV
Detection Limit = 5 ppm

Client's Requirement 40 ppm

Organotin Compounds

Test Method: ISO/TS 16179:2012.

<u>Organotins</u>	<u>Result</u>
	<u>1</u>
Tributyltin (TBT)	n.d.
Triphenyltin (TPhT)	n.d.
Dibutyltin (DBT)	n.d.
Diocetyl tin (DOT)	n.d.
Conclusion	PASS

Note: n.d. = not detected
* = Exceed the TLV
Detection Limit = 0.05 ppm (for individual compound)

Client's Requirement:

TBT Not Detected
DBT 1 ppm
TPhT 0.5 ppm (Infants) / 1 ppm (Adults)
DOT 1 ppm

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Phthalates

Test Method: Dichloromethane with ASE. Analysis was performed by GC/MS

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Diisononylphthalate (DINP)	28553-12-0	n.d.
Di- <i>n</i> -octylphthalate (DNOP)	117-84-0	n.d.
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Diisodecylphthalate (DIDP)	26761-40-0	n.d.
Butylbenzylphthalate (BBP)	85-68-7	n.d.
Dibutylphthalate (DBP)	84-74-2	n.d.
Diisobutylphthalate (DIBP)	84-69-5	n.d.
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	n.d.
Di-C711-branched alkylphthalates (DHNUP)	68515-42-4	n.d.
Di- <i>n</i> -hexylphthalate (DHP)	84-75-3	n.d.
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	n.d.
Dipentylphthalate (DPP)	131-18-0	n.d.
Total		n.d.
Conclusion		PASS

Note: n.d. = not detected
 * = Exceeds the TLV
 Detection Limit:
 DBP, BBP, DEHP, DIBP, DHP, DMEP, DNOP, DPP: 30 ppm (for individual compound).
 DINP, DIDP, DHNUP, DIHP: 100 ppm (for individual compound)

Client's Requirement 500 ppm (Total)

Σ of NP,OP, NPEO and OPEO

Test Method:
 NP, OP: Solvent Extraction. Analysis was performed by LC-MS.
 NPEO, OPEO: Textile: Draft DIN EN ISO 18254:2014.

	<u>Result</u>
	<u>1</u>
Nonylphenol (NP)	n.d.
Octylphenol (OP)	n.d.
Nonylphenol ethoxylates (NPEO)	n.d.
Octylphenol ethoxylates (OPEO)	n.d.
Σ of NP,OP, NPEO and OPEO	n.d.
Conclusion	PASS

Note: n.d. = not detected
 * = Exceeds the TLV
 Detection Limit = 3 ppm
Client's Requirement 250 ppm (sum of NP, OP, NPEO and OPEO)
10 ppm (NP)
10 ppm (OP)

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Polycyclic Aromatic Hydrocarbons (PAHs) and Regulated PAHs of High Concern

Test Method: ZEK 01.4-08. Analysis was performed by GC-MS.

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Naphthalene (NAP)	91-20-3	n.d.
Acenaphthylene (ANY)	208-96-8	n.d.
Acenaphthene (ANA)	83-32-9	n.d.
Fluorene (FLU)	86-73-7	n.d.
Phenanthrene (PHE)	85-01-8	n.d.
Anthracene (ANT)	120-12-7	n.d.
Fluoranthene (FLT)	206-44-0	n.d.
Pyrene (PYR)	129-00-0	n.d.
Benzo(j)fluoranthene (BjF)	205-82-3	n.d.
Benzo(a)anthracene (BaA)	56-55-3	n.d.
Chrysene (CHR)	218-01-9	n.d.
Benzo(b)fluoranthene (BbF)	205-99-2	n.d.
Benzo(k)fluoranthene (BkF)	207-08-9	n.d.
Benzo(a)pyrene (BaP)	50-32-8	n.d.
Indeno(1,2,3-cd)pyrene (IPY)	193-39-5	n.d.
Dibenzo(a,h)anthracene (DBA)	53-70-3	n.d.
Benzo(g,h,i)perylene (BPE)	191-24-2	n.d.
Benzo(e)pyrene (BeP)	192-97-2	n.d.
Total		n.d.
Conclusion		PASS

Note: n.d. = not detected
 * = Exceeds the TLV
 Detection Limit = 0.2 ppm (for individual compound)

Client's Requirement:

Σ of PAHs	10 ppm (Total)
Benzo(a)anthracene (BaA)	1 ppm
Benzo(a)pyrene (BaP)	1 ppm
Benzo(b)fluoranthene (BbF)	1 ppm
Benzo(e)pyrene (BeP)	1 ppm
Benzo(j)fluoranthene (BjF)	1 ppm
Benzo(k)fluoranthene (BkF)	1 ppm
Chrysene (CHR)	1 ppm
Dibenzo(a,h)anthracene (DBA)	1 ppm

*** End of Report ***