

Test Report

No. KE/2015/71952

Date : Jul 22, 2015

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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 : Active Zinc Oxide
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 : Active Zinc Oxide(TR)
Color Name / Code : White
Supplier Name : Taixiang Rubber (Shen Zhen) Co., Ltd.
Country of Origin : China
Country of Destination : ---
Material Component : Active Zinc Oxide
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 : Jul 17, 2015
Sample Tested Date : Jul 17 ~ Jul 22, 2015
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/2015/71952



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

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Component List

Component No.	Component	Material
1	White Active Zinc Oxide	Active Zinc Oxide

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.

	<u>Result</u>
	<u>1</u>
Cadmium	n.d.
Chromium	n.d.
Lead	n.d.
Mercury	n.d.
Conclusion	PASS

Note: n.d. = not detected

Client's Requirement	<u>Infants</u> <u>(ppm)</u>	<u>Adults</u> <u>(ppm)</u>	<u>Detection Limit</u> <u>(ppm)</u>
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.

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

Note: n.d. = not detected
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>
		1
Total Lead	--	20.1 ppm
Conclusion		PASS

Note: n.d. = not detected
Detection Limit = 5 ppm

Client's Requirement 40 ppm

Organotin Compounds

Test Method: ISO/TS 16179:2012.

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

Note: n.d. = not detected
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
 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
 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>
		1
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
 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 ***

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