



Test Report

No. BR1702969 Rev. 0

Date: Barueri, 27 Jul 2017

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Espugum Industria e Comércio Ltda

Rua: Luiz Carlos Brunello - 485

Chácara São Bento

Valinhos

SP Brasil

The following sample(s) was/were submitted and identified on behalf of the buyer as: TUBOX - PALMITEC

SGS Job No. : 4000-22092-1
Proposal Number : CRS L-31398.49098.17 REV.01
Sample receiving condition at SGS : ENVELOPE
Total of Sample : 01 SAMPLE
Buyer's Name/Division : Adidas Footwear
Age Group : Adults
Material Name : TUBOX
Material Code : TUBOX - PALMITEC
Material Supplier : ESPUGUM
Finished Product Factory : ESPUGUM
Sample Classification : Composite Materials (208)
Test Required Key Code No. : Key Code (208) under Adidas A-01 Test Standard 2015
Model Name : TUBOX - PALMITEC
Project : ADIDAS
Request Composite Test (Materials Mix) : No
Report Type : First Order (FO)
Sample Receiving Date : 29 Jun 2017
Test Performing Period : 29 Jun 2017 - 26 Jul 2017
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Summary of Test Result:

Test Parameter	Test Method	Conclusion
Extractable Metals	DIN EN ISO 105-E04 (2013) in acid solution (1 hour extraction with 37°C) / DIN EN ISO 11885:2009 & DIN EN ISO 12846:2012.	PASS
Total Cadmium	With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.	PASS
Total Heavy Metals	Microwave digestion / DIN EN ISO 11885 (2009), analysis by ICP.	PASS

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Phthalates	With reference to CPSC Method CPSC-CH-C1001.09.3 from 1st, April of 2010, analysis was performed by GC-MS.	PASS
Nonylphenol Ethoxylates (NPEOs), Octylphenol Ethoxylates (OPEOs), Nonylphenol (NP) and Octylphenol (OP)	Sample preparation by solvent extraction (EN ISO 18254/16), analysis was performed by LC-MS and/or GC-MS.	PASS
Organotin Compounds	With reference to ISO 16179:2012, analysis was performed by GC-MS.	PASS
Polycyclic aromatic hydrocarbons (PAH)	With reference to AfPS GS 2014:01, analysis was performed by GC-MS.	PASS
PVC (Polyvinyl chloride)	In house 2360/12, analysis was performed by FTIR and/or Beilstein test	PASS
Short Chained Chlorinated Paraffin (SCCP) and Medium Chained Chlorinated Paraffin (MCCP)	With reference to DIN EN ISO 18219:2016-02; analysis was performed by LC/MS-MS.	PASS

Sample Photo :



SGS authenticate the photo on original report only

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Signed for and on behalf of
SGS do Brasil Ltda.



Simone da Costa Morgado dos Reis
Laboratory Manager CRQ 04261979



Arley Santos Ferreira Leite
Laboratory Supervisor CRQ 04471856

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Test Results :

Test Part Description :

Item No.	SGS Sample ID	Description
1	BR1702969.001	TUBOX - PALMITEC

Extractable Metals

Test Method : DIN EN ISO 105-E04 (2013) in acid solution (1 hour extraction with 37°C) / DIN EN ISO 11885:2009 & DIN EN ISO 12846:2012.

Test Item(s)	CAS-NO.	Client			Result
		Requeriment	MLQ	Unit	
Cadmium (Cd)	7440-43-9	Max. 0,10	0,03	mg/kg	ND
Chromium (Cr)	7440-47-3	Max. 2,00	0,03	mg/kg	0,09
Lead (Pb)	7439-92-1	Max. 1,00	0,03	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0,02	0,01	mg/kg	ND
Conclusion					PASS

Total Cadmium

Test Method : With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.

Test Item(s)	CAS-NO.	Client			Result
		Requeriment	MLQ	Unit	
Cadmium (Cd)	7440-43-9	Max. 40,00	12,50	mg/kg	ND
Conclusion					PASS

Phthalates

Test Method : With reference to CPSC Method CPSC-CH-C1001.09.3 from 1st, April of 2010, analysis was performed by GC-MS.

Test Item(s)	CAS-NO.	Client			Result
		Requeriment	MLQ	Unit	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	-	60,000	mg/kg	ND
Diisononyl Phthalate (DINP)	28553-12-0	-	60,000	mg/kg	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	60,000	mg/kg	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	-	60,000	mg/kg	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	60,000	mg/kg	ND
Dibutyl Phthalate (DBP)	84-74-2	-	60,000	mg/kg	ND
Diisobutyl Phthalate (DIBP)	84-69-5	-	60,000	mg/kg	ND
Di-C6-8-branched alkyphthalates (DIHP)	71888-89-6	-	60,000	mg/kg	ND

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Di-C711-branched alkyphthalates (DHNUP)	68515-42-4	-	60,000 mg/kg	ND
1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	68515-50-4	-	60,000 mg/kg	ND
Di-(2-methoxymethyl) phthalate (DMEP)	117-82-8	-	60,000 mg/kg	ND
Di-pentylphthalate (DPP)	131-18-0	-	60,000 mg/kg	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	-	60,000 mg/kg	ND
Sum of Phthalates		Max. 500,000	60,000 mg/kg	ND

Conclusion

Pass

Total Heavy Metals

Test Method : Microwave digestion / DIN EN ISO 11885 (2009), analysis by ICP.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client Requirement</u>	<u>MLQ</u>	<u>Unit</u>	<u>Result</u>
Lead (Pb)	7439-92-1	Max. 40,00	0,16	mg/kg	19,35

Conclusion

PASS

Nonylphenol Ethoxylates (NPEOs), Octylphenol Ethoxylates (OPEOs), Nonylphenol (NP) and Octylphenol (OP)

Test Method : Sample preparation by solvent extration (EN ISO 18254/16), analysis was performed by LC-MS and/or GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client Requirement</u>	<u>MLQ</u>	<u>Unit</u>	<u>Result</u>
Nonylphenol (NP)	25154-52-3	Max. 10,00	1,00	mg/kg	ND
Octylphenol (OP)	27193-28-8	Max. 10,00	1,00	mg/kg	ND
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	1,00	mg/kg	5,31
Octylphenol ethoxylates (OPEO)	9002-93-1	-	1,00	mg/kg	ND
Sum (NP, OP, NPEO e OPEO)		Max. 250,00	1,00	mg/kg	5,31

Conclusion

PASS

Organotin Compounds

Test Method : With reference to ISO 16179:2012, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client Requirement</u>	<u>MLQ</u>	<u>Unit</u>	<u>Result</u>
Monobutyl tin (MBT)	78763-54-9	Max. 1,00	0,01	mg/kg	ND
Dibutyl tin (DBT)	1002-53-5	Max. 1,00	0,01	mg/kg	ND
Diocetyl tin (DOT)	15231-44-4	Max. 1,00	0,01	mg/kg	ND
Tributyl tin (TBT)	688-73-3	ND	0,01	mg/kg	ND

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Triphenyl tin (TPhT)	892-20-6	Max. 1,00	0,01	mg/kg	ND
Monooctyl tin (MOT)	15231-57-9	Max. 1,00	0,01	mg/kg	ND
Trioctyltin (TOT)	869-59-0	Max. 1,00	0,01	mg/kg	ND
Conclusion					PASS

Polycyclic aromatic hydrocarbons (PAH)

Test Method : With reference to AfPS GS 2014:01, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>MQL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Naphthalene (NAP)	91-20-3	-	0,2	mg/kg	ND
Acenaphthylene (ANY)	208-96-8	-	0,2	mg/kg	ND
Acenaphthene (ANA)	83-32-9	-	0,2	mg/kg	ND
Fluorene (FLU)	86-73-7	-	0,2	mg/kg	ND
Phenanthrene(PHE)	85-01-8	-	0,2	mg/kg	ND
Anthracene (ANT)	120-12-7	-	0,2	mg/kg	ND
Fluoranthene (FLT)	206-44-0	-	0,2	mg/kg	ND
Pyrene (PYR)	129-00-0	-	0,2	mg/kg	ND
Benzo(a)anthracene (BaA)	56-55-3	-	0,2	mg/kg	ND
Chrysene (CHR)	218-01-9	-	0,2	mg/kg	ND
Benzo(b)fluoranthene (BbF) and Benzo(j)fluoranthene (BjF)	205-99-2 / 205-82-3	-	0,4	mg/kg	ND
Benzo(k)fluoranthene (BkF)	207-08-9	-	0,2	mg/kg	ND
Benzo(a)pyrene (BaP)	50-32-8	-	0,2	mg/kg	ND
Benzo(e)pyrene (BeP)	192-97-2	-	0,2	mg/kg	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	-	0,2	mg/kg	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	-	0,2	mg/kg	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	-	0,2	mg/kg	ND
Benzo(j)fluoranthene (BjF)	205-82-3	-	0,2	mg/kg	ND
Benzo(b)fluoranthene (BbF)	205-99-2	-	0,2	mg/kg	ND
Sum of PAH		-	-	mg/kg	ND
Conclusion					PASS

PVC (Polyvinyl chloride)

Test Method : In house 2360/12, analysis was performed by FTIR and/or Beilstein test

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>MQL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
PVC	9002-86-2	Negative	-	-	Negative
Conclusion					PASS

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Short Chained Chlorinated Paraffin (SCCP) and Medium Chained Chlorinated Paraffin (MCCP)

Test Method : With reference to DIN EN ISO 18219:2016-02; analysis was performed by LC/MS-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u>		<u>Unit</u>	<u>Result</u>
		<u>Requeriment</u>	<u>MLQ</u>		
Short Chained Chlorinated Paraffin (SCCP)	85535-84-8	Max. 1000	50	mg/kg	ND

Remarks :

- (1) MQL = Method Quantification Limit
- (2) ND = Not Detected (< MQL)
- (3) "-" = Not Analyzed
- (4) "--" = Analysis in Process
- (5) 1 mg/kg = 0.0001%
- (6) mg/kg = ppm

Comments :

All information reported on this Test Report refers only to the analyzed sample.

WARNING: The opinions and interpretations expressed below are applicable only to tests in which the specification parameters are included in this report and are not part of our scope of accreditation.

*** End of Report ***

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