



Analytical report – Summary page

Customer: Rutland Plastic Technologies Inc.
10021 Rodney Street
28134 Pineville - North Carolina
USA

Contact person: Tony Chapman
Date of order: 26.03.2009

Customers reference no.: EF MIXE, MITE, and 3DSE Blend
Description: Sample 5: Non-Phthalate Mixopake, Mixotrans, Hi Square
Sampling: by client

The test results of the analyzed samples

-- PASS --

the Nike RSL limits.


(see attached analytical report)



Analytical report

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Customers reference no.	EF MIXE, MITE, and 3DSE Blend	Lab reference no.:	2009-AS-13864-1	
Description:	Sample 5: Non-Phthalate Mixopake, Mixotrans, Hi Square	Sample / part of sample description:	Ink black	290077
Parameter * [unit]	Nike RSL limit	Standard / Method		Result
Total metal content - Cadmium [mg/kg]	< 50	Microwave digestion followed by ICP analysis; reporting limit: 25 mg/kg		n.d.
Total metal content - Chromium [mg/kg]	info only	Microwave digestion followed by ICP analysis; reporting limit: 3 mg/kg		n.d.
Total metal content - Lead [mg/kg]	< 90	Microwave digestion followed by ICP analysis; reporting limit: 50 mg/kg		n.d.
Total metal content - Nickel [mg/kg]	info only	Microwave digestion followed by ICP analysis		n.d.
Total metal content - Mercury [mg/kg]	< 1	Microwave digestion followed by ICP analysis; reporting limit: 0.1 mg/kg		n.d.
Total metal content - Tin [mg/kg]	info only	Microwave digestion followed by ICP analysis; reporting limit: 0.1 mg/kg		1.0
Formaldehyde (kids) [mg/kg]	< 20	ISO 14184-1		n.d.
Formaldehyde (adults) [mg/kg]	< 75	ISO 14184-1		n.d.
6 Phthalates listed in appendix [mg/kg]	Single or sum of 6 Phthalates <500	Nike inhouse method / extraction with THF/MeOH followed by HPLC-MS analysis		DINP: 100
Organotin compounds - TBT [mg/kg]	< 0.5	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
Organotin compounds - TPhT [mg/kg]	< 0.5	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
Sum of TBT and TPhT [mg/kg]	< 0.5	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
Organotin compounds - DBT [mg/kg]	info only	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
Organotin compounds - MBT [mg/kg]	info only	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.

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Customers reference no.	EF MIXE, MITE, and 3DSE Blend	Lab reference no.:	2009-AS-13864-1	 290077
Description:	Sample 5: Non-Phthalate Mixopake, Mixotrans, Hi Square	Sample / part of sample description:	Ink black	
Parameter * [unit]	Nike RSL limit	Standard / Method		Result
Organotin compounds - TeBT [mg/kg]	info only	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
MOT [mg/kg]	info only	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
DOT [mg/kg]	info only	Ethanol extraction, derivatisation, followed by GC-MS analysis; reporting limit: 0.1 mg/kg		n.d.
Nonylphenol-ethoxylates, NPEO [mg/kg]		Solvent extraction and analysis by LC-DAD or LC-MS; quantification based on Ethylan 77 (2-14 EO units); only compounds with 2-14 ethoxylate units quantified; detection limit: 50 mg/kg		n.d.
Octylphenol-ethoxylates, OPEO [mg/kg]		Solvent extraction and analysis by LC-DAD or LC-MS; quantification based on Triton X 100 (2-17 EO); only compounds with 2-17 ethoxylate units quantified; detection limit: 50 mg/kg		n.d.

legend: n.d. = not detected

* see list of tested compounds

The result relates only to the tested item. Samples are not stored longer than 3 months. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.

The analyses of mixed swatches is carried out at customer's special request and may imply a modification of the test standard. Please note that for results of mixed swatches below a given limit any single sample may exceed this limit. According to test specification separate testing is recommended in these cases.

30.03.2009 - 03.04.2009 / 23.04.2009

total run time



signature of chemist / manager

*** List of tested compounds**

Phthalates

Name	CAS-No.
Di-iso-nonylphthalate, DINP	28553-12-0
Di-n-octylphthalate, DNOP	117-84-0
Di(2-ethylhexyl)phthalate, DEHP	117-81-7
Di-iso-decylphthalate, DIDP	26761-40-0
Butylbenzylphthalate, BBP	85-68-7
Dibutylphthalate, DBP	84-74-2

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