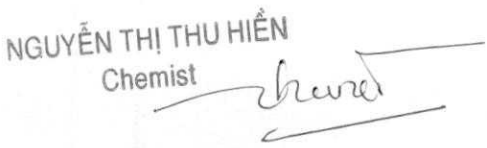


Produktsicherheit und -qualität
 Product Safety and Quality

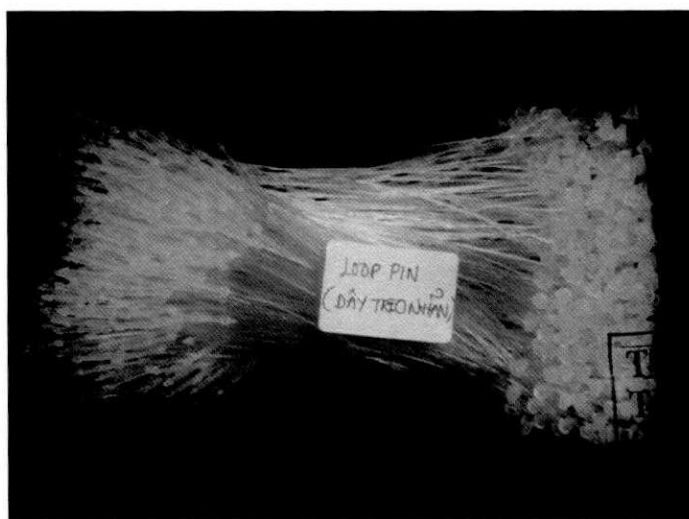
Prüfbericht - Nr.: 1603008823-02 <i>Test Report No.:</i>			Seite 1 von 5 <i>Page 1 of 5</i>		
Auftraggeber: CONG TY CP SAN XUAT TM TAN LAC HUNG <i>Client:</i> 312 Phan Anh, Hiep Tan, Tan Phu, Ho Chi Minh City					
Gegenstand der Prüfung: Plastic Loop pin <i>Test Item:</i>					
Bezeichnung: LOOP PIN (DAY TREO NHAN); MATERIAL: POLYPROPYLENE, <i>Identification:</i> HOMOPOLYMER; COLOR: TRANSPARENT; INFANTS; ADULTS					
Anlieferungszustand: einwandfrei <i>Delivery condition:</i> apparent good		Eingangsdatum: 03. February 2010 <i>Date of Receipt:</i>			
Prüfort: HO CHI MINH CITY <i>Testing Location:</i>					
Prüfgrundlage: ADIDAS A-01 requirements (September 2009) <i>Test Specification:</i> Test parameters chosen by customer: Extractable heavy metals; Organotin compounds; Phthalates; NP, OP, NPEO; Total Cadmium, Lead; PAHs					
Prüfergebnis: Nach Art und Umfang der durchgeführten Prüfungen entspricht der <i>Test Result:</i> Prüfgegenstand oben genannter Prüfgrundlage. According to the kind and extend of tests performed the test item passed test specification.					
geprüft/ tested by:  NGUYỄN THỊ THU HIỀN Chemist			kontrolliert/ checked by:  Dr. LƯƠNG THỊ KIM KHÁNH Laboratory Manager		
10 FEB 2010			10 FEB 2010		
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:					
Test period: 03. February 2010 – 10. February 2010 Sample tested as received (see photo)					
Abkürzungen: ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar			Abbreviations: ok / P = passed fail / F = failed n.a. / N = not applicable		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.					

Prüfbericht - Nr.: 1603008823-02
Test Report No.:

Seite 2 von 5
Page 2 of 5

2010. 02. 10

Test sample picture



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DISTRICT 12, HCM CITY

LOOP PIN (DAY TREO NHAN); MATERIAL:
POLYPROPYLENE, HOMOPOLYMER; COLOR:
TRANSPARENT; INFANTS; ADULTS

Lab. I.D.: VCL 100203-516

**RHEIN
LABOR
TRUNG
HCM C**

SUMMARY OF RESULTS

Test parameter	Results	Remarks
Extractable heavy metals	☒ Pass ☐ Fail	Page 3
Total Cadmium, Lead	☒ Pass ☐ Fail	Page 4
Phthalates	☒ Pass ☐ Fail	Page 4
NP, OP, NPEO	☒ Pass ☐ Fail	Page 4
Organotin compounds	☒ Pass ☐ Fail	Page 5
PAHs	☒ Pass ☐ Fail	Page 5

Prüfbericht - Nr.: 1603008823-02
Test Report No.:

 Seite 3 von 5
 Page 3 of 5

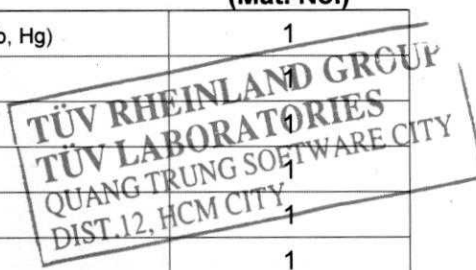
2010. 02. 10

Material List

Component	Material	Color	Mat. No.
Loop Pin	Plastic	White	1

Sampling list

Sample No.	Parameter	Composition (Mat. No.)
# 1	Extractable heavy metals (Cd, Cr, Pb, Hg)	1
# 2	Total (Cd, Pb)	1
# 3	Phthalates	1
# 4	NP, OP, NPEO	1
# 5	PAHs	1
# 6	Organotins	1



Test method: **Cadmium, Chromium, Lead, Mercury** extraction with acidic sweat solution according to DIN EN ISO 105 - E04, refer to DIN EN ISO 11885 determination by ICP- OES

Sample No.			# 1	Threshold Limit Value (TLV) from Adidas		Pass/Fail
Test parameter	Unit	MDL	Result	Infants	Adults	
Extractable Cadmium	mg/kg	0.1	N.D.	0.1	0.1	Pass
Extractable Chromium	mg/kg	0.1	N.D.	1.0	2.0	Pass
Extractable Lead	mg/kg	0.2	N.D.	0.2	1.0	Pass
Extractable Mercury	mg/kg	0.01	N.D.	0.02	0.02	Pass

Test method: **Total Cadmium, Lead** microwave digestion refer to DIN EN ISO 11885, determination by ICP-OES

Sample No.			# 2	Threshold Limit Value (TLV) from Adidas	Pass/Fail
Test parameter	Unit	MDL	Result		
Total Cadmium	mg/kg	1.0	N.D.	40	Pass
Total Lead	mg/kg	2.0	N.D.	40	Pass

Prüfbericht - Nr.: 1603008823-02
Test Report No.:

Seite 4 von 5
 Page 4 of 5

2010. 02. 10

Test method: **Phthalates** extraction with organic solvent; determination by GC-MS

Sample No.			# 3	Threshold Limit Value (TLV) from Adidas	Pass/Fail
Test parameter	Unit	MDL	Result		
Dibutylphthalate (DBP)	mg/kg	10	N.D.		
Benzylbutylphthalate (BBP)	mg/kg	10	N.D.		
Diethylhexylphthalate (DEHP)	mg/kg	10	N.D.		
Di-n-octylphthalate (DNOP)	mg/kg	10	N.D.		
Diisononylphthalate (DINP)	mg/kg	10	N.D.		
Diisodecylphthalate (DIDP)	mg/kg	10	N.D.	500	Pass
Sum Phthalates	mg/kg	-	N.D.		

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Test method: **NP, OP, NPEO** extraction with organic solvent, determination by GC-MS, HPLC for confirmation

Sample No.			# 4	Threshold Limit Value (TLV) from Adidas	Pass/Fail
Test parameter	Unit	MDL	Result		
Nonylphenol (NP)	mg/kg	10	N.D.	100	Pass
Octylphenol (OP)	mg/kg	10	N.D.		
Nonylphenoethoxylates (NPEO)	mg/kg	10	N.D.		
Sum (NP, OP, NPEO)	mg/kg	-	N.D.	1000	Pass

Test method: **Organotin compounds** refer to ISO 17353 (2004), determination by GC-MS

Sample No.			# 6	Threshold Limit Value (TLV) from Adidas		Pass/ Fail
Test parameter	Unit	MDL	Result			
Organotin compounds		-	-	Infants	Adults	
Monobutyltin (MBT)	mg/kg	0.050	N.D.	1.0	1.0	Pass
Dibutyltin (DBT)	mg/kg	0.050	N.D.	1.0	1.0	Pass
Tributyltin (TBT)	mg/kg	0.025	N.D.	0.05	0.05	Pass
Triphenyltin (TPhT)	mg/kg	0.050	N.D.	0.5	1.0	Pass

Prüfbericht - Nr.: 1603008823-02
 Test Report No.:

Seite 5 von 5
 Page 5 of 5

2010. 02. 10

 Test method: **PAHs**

extraction by organic solvent, refer to ZEK 01.2 – 08

Sample				# 5	Threshold Limit Value (TLV) from Adidas	Pass/Fail
Test parameter	CAS	Unit	MDL	Result		
acenaphthene	83-32-9	mg/kg	0.2	N.D.	<1.0	Pass
acenaphthylene	208-96-8	mg/kg	0.2	N.D.		
anthracene	120-12-7	mg/kg	0.2	N.D.		
benz(a)anthracene	56-55-3	mg/kg	0.2	N.D.		
benzo(a)pyrene	50-32-8	mg/kg	0.2	N.D.		
benzo(b)fluoranthene	205-99-2	mg/kg	0.2	N.D.	<10	Pass
benzo(ghi)perylene	191-24-2	mg/kg	0.2	N.D.		
benzo(k)fluoranthene	207-08-9	mg/kg	0.2	N.D.		
chrysene	218-01-9	mg/kg	0.2	N.D.		
dibenz(ah)anthracene	53-70-3	mg/kg	0.2	N.D.		
fluoranthene	206-44-0	mg/kg	0.2	N.D.		
fluorene	86-73-7	mg/kg	0.2	N.D.		
indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.2	N.D.		
naphthalene	91-20-3	mg/kg	0.2	0.8		
phenanthrene	85-01-8	mg/kg	0.2	N.D.		
pyrene	129-00-0	mg/kg	0.2	N.D.		
Sum PAHs	-	mg/kg	-	0.8	<10	Pass

Explanation:

- mg/kg is equal to ppm (parts per million)
- MDL: -Method Detection Limit
- N.D. - not detected (<MDL)

---End of Test Report---

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