



Shirley  
Technologies  
Limited

**OEKO-TEX®**

# Technical Report

**Our Ref: 39414**

**Certificate No: 11-31475**



Shirley Technologies Limited. Registered Office :  
Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651.  
VAT Number GB 816764800.

The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.

Our laboratories are accredited to EN ISO/IEC 17025



Shirley  
Technologies  
Limited

Shirley Technologies Limited  
Unit 11, Westpoint Enterprise Park  
Clarence Avenue  
Manchester, M17 1QS  
United Kingdom

Tel: +44 161 869 1610  
Fax: +44 161 872 6492  
www.shirleytech.com

## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 2 of 8
Your Ref :	18 September, 2015

**Oeko-Tex Certificate Number** 11-31475

### Client

Richard Pieris Natural Foams Ltd  
Block A Biyagama Export Processing Zone  
Malwana  
Sri Lanka  
11672

### Date of receipt

18 June, 2015

### Date work started (correct samples received and credit approved or payment received)

01 September, 2015

### Work Requested

Application for Renewal of Oeko-Tex ® Certificate 11-31475 Expiry Date 15.8.15

### Samples Received

<u>STL Code</u>	<u>Description</u>
089356	Natural Latex Foam
089357	Natural Latex Foam
089358	Natural Latex Foam

### Specimens Analysed (as per quotation)

<u>STL Code</u>	<u>Description</u>
089418	Natural Latex Foam
089419	Natural Latex Foam
089420	Natural Latex Foam



Shirley  
Technologies  
Limited

Shirley Technologies Limited  
Unit 11, Westpoint Enterprise Park  
Clarence Avenue  
Manchester, M17 1QS  
United Kingdom

Tel: +44 161 869 1610  
Fax: +44 161 872 6492  
[www.shirleytech.com](http://www.shirleytech.com)

## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 3 of 8
Your Ref :	18 September, 2015

### 1. INTRODUCTION

Samples were submitted for certification to Oeko-Tex® Standard 100. An application form was filled in by the client detailing the manufacturing processes, any chemicals involved in production and any necessary Health and Safety data.

### 2. LABORATORY INVESTIGATION

The testing was carried out to Oeko-Tex® Standard 100 Product Class I (Issue 01/2015), using the methods summarised in the normative document "OEKO-TEX® Standard 100 - testing procedures".

The comment n.d in the results table means the compound was below the lower quantification limit of the method in our laboratory.



## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 4 of 8
Your Ref :	18 September, 2015

### 3. OEKO-TEX LIMIT VALUES

Class I Criteria	Limit
pH	4.0-7.5
Formaldehyde (mg/kg)	16
Extractable Metals (mg/kg)	
As	0.2
Pb	0.2
Cd	0.1
Cr	1.0
Co	1.0
Cu	25.0
Ni	1.0 (0.5 metallic)
Hg	0.02
Sb	30.0
Total Metals (mg/kg)	
Pb	90.0
Cd	40.0
Chlorinated & Other Phenols (mg/kg)	
PCP/TeCP	0.05/0.05
TrCP/OPP	0.2/50.0
Pesticides (mg/kg) Total	0.5
Arylamines (mg/kg)	20
Allergenic Dyes (mg/kg)	50
Chlorinated Benzenes & Toluenes (mg/kg) Total	1.0
PFOS,PFOA (ug/sq.m)	1.0
PFUdA, PFDoA, PFTTrDA, PFTeDA (mg/kg)	0.05
Phthalates (DINP,DNOP,DIDP,DEHP,BBP,DBP,DIBP,DIHP,DHNUP,DHP,DMEP,DPP) (wt%)	0.1
SCCP/TCEP (wt%)	0.1
NMP/DMAc/DMF (wt%)	0.1
Formamide (wt%)	0.02
DMFu (mg/kg)	0.1
OP/NP (mg/kg)	10
AP/APEO Sum (mg/kg)	100
Individual PAH inc: Benzopyrene (mg/kg)	0.5
Total PAH (mg/kg)	5.0
Colourfastness	
Water	3
Persp. acid/Persp.alkali	3-4
Dry rub	4
Saliva & Perspiration	Fast
Organo Tin (mg/kg)	
DBT	1.0
TBT	0.5
TPhT	0.5
DOT	1.0



Shirley  
Technologies  
Limited

Shirley Technologies Limited  
Unit 11, Westpoint Enterprise Park  
Clarence Avenue  
Manchester, M17 1QS  
United Kingdom

Tel: +44 161 869 1610  
Fax: +44 161 872 6492  
[www.shirleytech.com](http://www.shirleytech.com)

## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 5 of 8
Your Ref :	18 September, 2015

### Volatile Emissions (mg/cu.m)

Formaldehyde	0.1
Toluene	0.1
Styrene	0.005
Vinylcyclohexene	0.002
4-phenylcyclohexene	0.03
Butadiene	0.002
Vinylchloride	0.002
Aromatic Hydrocarbons	0.3
Total Organic Volatiles	0.5

For the full listing of Oeko-Tex limit values please see the current version of Oeko-Tex Standard 100.



## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 6 of 8
Your Ref :	18 September, 2015

### 4. TEST RESULTS

#### pH: Class I & II

	089418
pH	7.3

#### Extractable Metals: Class I

	089420
Antimony (mg/kg)	n.d.
Arsenic (mg/kg)	n.d.
Cadmium (mg/kg)	n.d.
Chromium (mg/kg)	n.d.
Cobalt (mg/kg)	n.d.
Copper (mg/kg)	n.d.
Lead (mg/kg)	n.d.
Mercury (mg/kg)	n.d.
Nickel (mg/kg)	n.d.

#### Lead/Cadmium Total: Class I

	089418
Cadmium (mg/kg)	n.d.
Lead (mg/kg)	n.d.

#### Amines derived from Azo Colorants

	089418
MAK Amines (mg/kg total)	n.d.

#### Phthalates: Class I

	089420
Phthalates (% total)	n.d.

#### Organo Tin: Class I

	089420
TBT (mg/kg)	n.d.
DBT (mg/kg)	n.d.
DOT (mg/kg)	n.d.
TPHT (mg/kg)	n.d.





## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 7 of 8
Your Ref :	18 September, 2015

### Subjective Odour

	089418
Subjective Odour	PASS

### Solvent NMP, DMAc, Fmd and DMF

	089418
NMP solvent (%)	n.d.
DMAc solvent (%)	n.d.
DMF solvent (%)	n.d.
Formamide (%)	n.d.

### Volatile Emissions: Formaldehyde

	089419
Formaldehyde (mg/m <sup>3</sup> )	n.d.

### Emission Chamber VOCs

	089419
Toluene (mg/m <sup>3</sup> )	0.0000
Styrene (mg/m <sup>3</sup> )	0.0019
Vinylcyclohexene (mg/m <sup>3</sup> )	0.0000
4-PCH (mg/m <sup>3</sup> )	0.0000
Butadiene (mg/m <sup>3</sup> )	0.0000
Vinylchloride (mg/m <sup>3</sup> )	0.0000
Aromatics (mg/m <sup>3</sup> total)	0.0068
VOCs (mg/m <sup>3</sup> total)	0.0342

### Phenols: Class I

	089418
PCP (mg/kg)	n.d.
TrCP (mg/kg)	n.d.
TeCP (mg/kg)	n.d.
OPP (mg/kg)	n.d.

### Alkylphenol and Alkylphenol Ethoxylates

	089418
OP/NP (mg/kg) Sum	n.d.
API/APEO (mg/kg) Sum	n.d.



Shirley  
Technologies  
Limited

Shirley Technologies Limited  
Unit 11, Westpoint Enterprise Park  
Clarence Avenue  
Manchester, M17 1QS  
United Kingdom

Tel: +44 161 869 1610  
Fax: +44 161 872 6492  
www.shirleytech.com

## CONFIDENTIAL TEST REPORT

Our Ref : 39414	Page 8 of 8
Your Ref :	18 September, 2015

### 5. CONCLUSIONS

The samples submitted conform to Oeko-Tex® Standard 100 Product Class I.

Reported by:

Mrs Fiona McAllin, Technical Administrator

Countersigned by:

Mr Phil Whitaker, Ecology Services Director

Enquiries concerning this report should be addressed to Customer Services (contact details above)

Shirley Technologies Limited  
Registered Office: Wira House, West Park Ring Road, Leeds LS16 6QL, UK.  
A company Registered in England & Wales with company number 4669651  
VAT No. 816764800  
Our laboratories are accredited to EN ISO/IEC 17025

