



Shirley  
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Limited

## Confidential Report

**Our Ref: 37328b**

Shirley Technologies Limited. Registered Office :  
Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651.  
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Our laboratories are accredited to EN ISO/IEC 17025





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22<sup>nd</sup> August 2014

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Your Ref: -

Client: Camira Fabrics Limited

Address: Nazia Ahmed  
Camira Fabrics Limited  
Meltham Mills  
Meltham  
West Yorkshire  
HD9 4AY

Job Title: Antibacterial testing

Client's Order Ref: 49596

Date of Receipt: 11<sup>th</sup> August 2014

Description of Sample(s): One PVC coated materials labelled as:  
1) "Vita – Avocado" (Lime green in colour)

Sample was received in good condition.

Work Requested: AATCC 147: 2011

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### **INTRODUCTION**

One samples labelled as above was received for testing to AATCC 147: 2011. Testing was performed against *S.aureus* ATCC 6538 and *K.pneumoniae* ATCC 4352 as stated in the standard method. The client requested to test the face of each sample, i.e. the coloured face. Testing commenced on the 13<sup>th</sup> August 2014.

### **METHODOLOGY: AATCC 147: 2011**

An inoculum of *S. aureus* ATCC 6538 was prepared by transferring  $1 \pm 0.1$  ml of a 24 hour nutrient broth culture into  $9 \pm 0.1$  ml of sterile distilled water.

Using a 4mm inoculating loop, one loopful of the diluted inoculum was transferred to the surface of a sterile nutrient agar plate by making five 60 mm long parallel streaks spaced 10 mm apart without refilling the loop.

The non-sterile test specimen was then placed transversely across the five inoculum streaks. A sterile glass plate was then placed on top of the specimen to ensure intimate contact with the agar surface. This was performed in triplicate.

The specimen was then incubated at  $37 \pm 2$  °C for 24 hours.

The test was repeated with *K.pneumoniae* ATCC 4352.

The zone of inhibition around the specimen was determined according to the method stated in Section II in AATCC Test Method 147:2011.

Please note a deviation from the standard; no equivalent control sample was sent by the customer and an internal control was performed. However, controls were performed ensuring that the bacteria did grow adequately.

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**RESULTS: AATCC 147: 2011 - *S. aureus* ATCC 6538 – “Vita – Avocado”**

Specimen	T /cm	D /cm	T-D /cm	T-D / 2 = W /cm	Average W /cm	Growth under sample
1	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
2	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
3	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None

**AATCC 147: 2011 - *K.pneumoniae* ATCC 4352 – “Vita – Avocado”**

Specimen	T /cm	D /cm	T-D /cm	T-D / 2 = W /cm	Average W /cm	Growth under sample
1	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
2	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
3	2.5	2.5	0	0		None
	2.5	2.5	0	0	0	None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None
	2.5	2.5	0	0		None

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W = Width of clear zone of inhibition. T = total diameter of test specimen. D = diameter of the test specimen (in cm)

### COMMENTS

The criterion for passing the test must be agreed upon by the interested parties. The AATCC 147 standard states that to constitute acceptable antibacterial activity, there must be no bacterial colonies directly under the sample in the contact area.

The sample labelled "Vita-Avocado" displayed Antibacterial activity against both bacteria, according to our testing.

Reported by: 

Christopher Kitch  
Technical Officer

Countersigned by: 

Nibela Asghar  
Operational Head

Enquiries concerning this report should be addressed to Customer Services.

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