



G-Series by Glanda International, quality wet weather apparel at a budget price.

Glanda's newly released 2 ply lightweight Flame Retardant and Anti-Static wet weather apparel, waterproof/breathable, 4602.I.2011 50mm FR reflective tape configuration, fully seam sealed, manufactured to Glanda's high quality standards.



126-128 Bamfield Road
West Heidelberg,
Victoria, Australia, 3081

P: +61 3 9457 5458
F: +61 3 9457 5985
E: contactus@glanda.com.au

G-SERIES

BY glanda
INTERNATIONAL

FLAME RETARDANT & ANTI-STATIC
waterproof and breathable



Test Report

No. SHSL1307183222TX

Date: Aug 02, 2013

Page 1 of 4

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Woven fabric: polyester oxford in yellow (300D)

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jul 29, 2013

Testing Period : Jul 29, 2013 TO Aug 02, 2013

Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Tina Xi
Account Executive

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t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

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No. SHSL1307183222TX

Date: Aug 02, 2013

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Test Result

Colour Fastness To Washing

(AS 2001.4.15-2006; Test No.J2 Machine wash at 40 °C with 4g/l 'ECE'detergent &1g/l Sodium perborate solution)

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Light

(AS 2001.4.B02-2001; use Xenon arc lamp..)

Comparison upto blue wool reference 5

Grade (Bluewool Std) 4

Water Repellency (AS 2001.2.16-1987; Spray Test)

Specimen 1

Rating 90

Specimen 2

Rating 90

Specimen 3

Rating 90

Remarks: Spray Rating

100	No sticking or wetting of upper surface
90	Slight random sticking or wetting of upper surface
80	Wetting of upper surface at spray points
70	Partial wetting of whole of upper surface
50	Complete wetting of whole of upper surface
0	Complete wetting of the entire face of the specimen

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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

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No. SHSL1307183222TX

Date: Aug 02, 2013

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Water Repellency (AS 2001.2.17-1987; - Hydrostatic Head; Rate of increase of water pressure: 10cmH₂O /min, temp of distilled water: 20 degree C, face side facing water)

Average	5#	4#	3#	2#	1#
	<u>As Received</u>				
	Water Column (mm H ₂ O)				
	>10000 >10000 >10000 >10000 >10000 >10000				
	Water Column (Kpa)				
	>100 >100 >100 >100 >100 >100				

Fabric Width

(AS 2001.2.12-1987)

Excluding Selvages (mm) 1502

Fabric Weight Per Unit Area

(AS 2001.2.13-1987)

(g/m²) 209

Water Vapour Transmission of Textile Fabrics (ASTM E96:2005)

Procedure BW – Inverted Water Method at 73.4°F (23°C) & 50±2% RH

Tested Area : 0.003117 square metre

Orientation : Back Side Facing Water

Gram per square metre per 24 hours 3860

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Testing Center

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666

t (86-21) 61402666

f (86-21) 64958763

f (86-21) 64958763

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Retroreflective materials and devices for road traffic control purposes
Part 4: High-visibility materials for safety garments
(AS/NZS 1906.4:2010)
Section 2.3 and Appendix A: Colour Requirements for Fluorescent Material
Values

Measured		Result
Chromaticity coordinates	x value	0.389
	y value	0.539
Luminance Factor		1.13
		Pass

CIE chromaticity coordinates (x, y) of the corners of the colour spaces for high daytime visibility materials

Colour	Chromaticity coordinates				
Fluorescent yellow (see note *)	x	0.520	0.428	0.346	0.375
	y	0.477	0.412	0.492	0.625

*Note: (1).The colour space for yellow includes the colour commonly known as 'lime-yellow' and 'yellow-green'.
 (2). The restricted yellow is the preferred colour wherever yellow or fluorescent yellow is specified
 Minimum luminance factor for fluorescent colours

Colour designation	Minimum luminance factor
Fluorescent yellow	0.70

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 Testing Center for Safety Laboratories

3rd Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
 t (86-21) 61402666 f (86-21) 64958763

www.cn.sgs.com
sgs.china@sgs.com

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Test Report

No. SHSL1303039547TX

Date: Mar 15, 2013

Page 1 of 2

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Woven fabric: polyester anti-static oxford in orange

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 12, 2013

Testing Period : Mar 12, 2013 TO Mar 15, 2013

Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Tina Xi
Account Executive

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Testing Center

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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
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Test Report

No. SHSL1303039547TX

Date: Mar 15, 2013

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Test Result

Surface Resistivity of Fabric

(EN 1149-1:2006)

Test Condition : Applied Voltage and time :100V for 15 seconds
 Temperature 23± 1℃, Relative Humidity 25± 5%

Back

Surface Resistance(ohm)	2.4x10 ⁸
Surface Resistivity (ohm)	4.8x10 ⁹

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Testing Center, Zhongyuan Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
f (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

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e sgs.china@sgs.com

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Test Report

No. SHSL1502033906TX

Date: Feb 27, 2015

Page 1 of 3

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Woven fabric: polyester Anti-Static FR PU oxford in yellow (300D)

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Feb 25, 2015

Testing Period : Feb 25, 2015 TO Feb 27, 2015

Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd

May Chen

May Chen (Account Executive)



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t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

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Test Report

No. SHSL1502033906TX

Date: Feb 27, 2015

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Test Result

Protective clothing -Protection against heat and flame - Limited flame spread materials and material assemblies(Ref. ISO 14116:2008 Clause 6.1/ ISO 15025:2000 procedure A)

As received

Sample	! Material					
	Lengthwise			Widthwise		
Specimen	1	2	3	1	2	3
The lowest boundary of any flame reach the upper or vertical edge	N	N	N	N	N	N
Flaming debris	N	N	N	N	N	N
Afterglow spread from the carbonized area to the undamaged area after the cessation of flaming	N	N	N	N	N	N
Hole formation	Y	Y	Y	Y	Y	Y
After flame (second)	NIL	NIL	NIL	NIL	NIL	NIL

Flame application time: 10 seconds

Remarks: Y. yes N. no

Classification:

1. Requirements for limited flame spread (Index 1)

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or vertical edge.

No specimen shall give off flaming debris.

No afterglow shall spread from the carbonized area to the undamaged area after the cessation of flaming.

2. Requirements for limited flame spread (Index 2)

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or vertical edge.

No specimen shall give flaming debris.

No afterglow shall spread from the carbonized area to the undamaged area after the cessation of flaming.

No specimen shall show hole formation

3. Requirements for limited flame spread (Index 3)

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or vertical edge.

No specimen shall give off flaming debris.

No afterglow shall spread from the carbonized area to the undamaged area after the cessation of flaming.

No specimen shall show hole formation

The afterflame time of each individual specimen shall not exceed 2 s.



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Test Report

No. SHSL1502033906TX

Date: Feb 27, 2015

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Sample Photo



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