

Sky Face Mask: Expected performance characteristics

The Sky Face Mask shares the same fabric composition as the Ultra Face Mask in the main body of the mask but the Sky Face Mask is enhanced with an additional layer of material when compared to the Ultra and also features an adjustable nose wire for improved fit.

Model	Number of fabric layers	Adjustable nose wire
Ultra	2	No
Sky	3	Yes

The Ultra Face Mask has been independently tested by SGS and determined to have the following key characteristics:

	Requirement	New	After 10 washes*
Air Permeability (ISO 9237:1995)	≥96 L/m ² /s	149.2 - PASS	140.8 - PASS
Particulates Filtration Efficiency (PFE) (DGA method Annex 2, 3 micron particles)	Category 1: ≥ 90% Category 2: ≥ 70%	≥ 91.5 PASS - Category 1	≥ 98.1 PASS - Category 1

* Washing procedure: ISO 6330:2012: Using horizontal axis, front-loading type machine; Procedure No. 6N, Machine wash at 60°C; with 2kg total dry mass (Type III (100% Polyester) Ballast + specimen) and 'ECE(A)' detergent + sodium perborate + TAED, line dry.

The Sky Face Mask is therefore expected to perform better than the Ultra in the PFE test due to the additional material layer. Likewise, the Sky Face Mask is expected to have lower Air Permeability due to the additional material layer but extensive testing has demonstrated that breathing through the Sky Face Mask remains a comfortable experience for the wearer.

The test results for the Ultra Face Mask are presented on the following pages.



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THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO. SL12050306340901TX DATE: Oct 14, 2020 ISSUED BY SGS (Hong Kong) UPDATED TEST INFORMATION.

FLASHBAY ELECTRONICS
XIFENGCHENG INDUSTRIAL PARK, FUYONG HEPING FUYUAN 2ND ROAD, BAOAN DISTRICT,
SHENZHEN, GUANGDONG, CHINA

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

Sample Description : One sample of adult's face masks

Sample Color : (A)White

Composition : (A)94.6% Polyester 5.4% Spandex

Fabric Width : 18cm

Fabric Weight : (A)12cm

Model No. : Ultra

Manufacturer : Flashbay Electronics

Country of Destination : China

Market of Destination : France

Sample Receiving Date : Jul 24, 2020

Testing Period : Jul 25, 2020 - Oct 16, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

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

Proposed Care Instruction : 60 degrees, air drying

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS Hong Kong Limited | Office: Units 303 & 305, 3/F Building 22E, Phase 3, HK Science Park, New Territories, Hong Kong t (852) 2334 4481 f (852) 2764 3126 e mktg.hk@sgs.com
Laboratory: 1/F, Units 16-29 3/F, 4/F & 5/F, On Wui Centre, 25 Lok Yip Road, Fanling, New Territories, Hong Kong. www.sgs.com

Conclusion	A	Remark
Dimensional Stability	PASS	
Air Permeability Of Textile Fabrics	PASS	
Tie Attachment Strength	PASS	
Penetration of Filter Material	PASS	

Remark(s) : FAIL=Below Client's/General Requirement
PASS=Meet Client's/General Requirement

Signed for and on behalf of
SGS (Hong Kong) Limited



Carmen Ng, Assistant Technical Manager

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Test Result

Dimensional Stability To Washing

(ISO 5077:2008 / ISO 6330:2012 Procedure No. 6N; Using horizontal axis, front-loading type machine: Machine wash at 60 degree C with 2kg total dry mass (type III (100% polyester) ballast + specimen) and 'ECE' detergent + sodium perborate + TAED, line dry)

		<u>Specified Requirement</u>
<u>After 10 wash</u>		
Lengthwise (%)	-0.6	±5.0%
Widthwise (%)	-0.9	

Remarks : (+) Means extension
 (-) Means shrinkage

Air Permeability Of Textile Fabrics

(ISO 9237:1995; Textest FX3300 Air Permeability Tester III)

	<u>As received</u>	<u>After 10 wash</u>	<u>Specified Requirement</u>
Test pressure : 100pa			
Test area : 20 sq.cm.			
Individual reading (Unit: L/m2/s)			
Commentary :			
-			
Average :	149.2	140.8	≥96 L/m2/s
CV%	3.1	4.3	

*Remark: Not detected = below 1 L/m2/s

Washing procedures same as shrinkage.

Tie Attachment Strength (Ref ISO13935-2/ ASTM D1683)

	(A)		<u>Specified Requirement</u>
Strength (lb)	<u>Left</u>	<u>Right</u>	
AS Received	90.2 (STB)	82.6 (STB)	≥44.5 N
After 10 washes	88.7 (STB)	78.9 (STB)	≥44.5 N

Notes: STB = Sewing Threads Break

Washing procedures same as shrinkage.

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Particulates Filtration Efficiency (PFE)

(DGA method Annex 2, 3 microns particles)

Sample: Face masks

<u>As Received</u>		<u>Test Specimen</u>		<u>Requirement</u>
		1	2	
Filtration Efficiency	%	93.1	91.5	Category 1: ≥ 90% Category 2: ≥ 70%
 <u>After 10 washes*</u>				
		1		
Filtration Efficiency	%	98.1		Category 1: ≥ 90% Category 2: ≥ 70%

*Washing procedure: ISO 6330:2012: Using horizontal axis, front-loading type machine; Procedure No. 6N, Machine wash at 60°C; with 2kg total dry mass (Type III (100% Polyester) Ballast + specimen) and ‘ECE(A)’ detergent + sodium perborate + TAED, line dry

End of Report

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Sample Photo



SL120502742172TX_001



SL120502742172TX_002



SL120502742172TX_003

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