## **Certification Report**



#### **Product Certification Scheme**

This Certification Report shall not be amended, changed, varied or modified in any manner whatsoever by the licencee or otherwise. If the Certification Report is to be furnished to any third party or to the public, each such Certification Report shall be furnished in full and its entirety. This Certification Report shall be read in conjunction with the Product Certification Agreement.

File No : P5-017127 Report No : RPT014987

Edition : 2 Revision : 0

Issued By : AHMAD FARIHAN BIN MOHD ALWI

Date Issued : 21/04/2022

Applicant : 3M MALAYSIA SDN. BHD.

LEVEL 8, BLOCK F OASIS SQUARE, NO. 2,

JALAN PJU 1A/7A, ARA DAMANSARA

47301, PETALING JAYA SELANGOR, MALAYSIA

Factory : ASWAN INTERNATIONAL CORP.

5F-1, NO. 102, ROOSEVELT ROAD

SECTION 2, TAIPEI TAIWAN, R.O.C

47301, TAINAN CITY, TAIWAN

Product : PERSONAL EYE AND FACE PROTECTION DEVICES

Certification Basis : Standard (s): • ANSI/ISEA Z 87.1 : 2010

AMERICAN NATIONAL STANDARD FOR OCCUPATIONAL AND EDUCATIONAL

PERSONAL EYE AND FACE PROTECTION DEVICES

Product Certification Requirements in accordance to the Product Certification Agreement

Work Instruction: PCS/WI/MA/27

Verified By:

WAN AHMAD JAILANI WAN MAHMUD

Ts. MD ADHA RAHMAT

14/04/2022

14/04/2022

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## **Part A: Product Evaluation**

Brand	Model	Туре	Rating	Size	Label
ЗМ	12163-00000-20	EYEWEAR	IMPACT MARK = IMPACT RATED PLANO; LENS TYPE = CLEAR COATED	-	MS
ЗМ	SF3701ASGAF- BLU, SF3702ASGAF- BLU, SF3707ASGAF- BLU	EYEWEAR	IMPACT MARK = IMPACT RATED PLANO; LENS TYPE = CLEAR WITH SCOTCHGARD ANTI-FOG		MS
ЗМ	SF3750ASGAF- BLU	EYEWEAR	IMPACT MARK = IMPACT RATED PLANO; LENS TYPE = GREY		MS

Manufacturing Process

- : 1. Len injection, Cleaning & Hard coating Drying
  - 2. Frame injection
  - 3. Assembly( lens and frame

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# Part B: Type Test Report

Test Report No	Date	Laboratory	Туре	Result	Summary
HEF-Lab-QATR-Results-396339	15/01/2019	Laboratories accredited by Accreditation Bodies that have signed the APLAC/ILAC MRA	Type Test Report	Pass	Samples for type test model SF3701ASGAF-BLU been tested according to ANSI/ISEA Z87.1 (representative for models SF3702ASGAF-BLU, SF3750AS-BLU & 12163-00000-20) for clauses: 5.1.1 Optical quality; 6.1.3 ANSI Lateral coverage; 5.1.2 Luminous Transmission and haze; 5.1.4 Prism and Prism Imbalance; 5.1.4 Refractive power, astigmatism and resolving power; SGAF Coating thickness; 7.2 UV Transmittance Scan; 7.1.4.2 High Mass Impact; 7.1.4.3 High Velocity Impact; 5.2.2 Ignition resistance; 6.2 Anti-fog Properties. Result = All Passed. Test by 3M Center (3M Personal Safety Division Laboratory. Minnesota, USA (Accreditation Number 3356.01).

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### **Part C: Product Marking**

All Certified products shall be clearly, legibly and indelibly marked as followed:

On the Product : i) Manufacturer's identification mark, i.e. 3M

(ii) The Standard, i.e. Z87

(iii) Coverage (small head sizes) e.g. H (iv) Impact Mark, i.e. + (Impact rated plano)

(v) Lense type, e.g. U6

(vi) SIRIM Marking, Please refer to PART I for details

Method of Marking : Inject mould on temple

On the Packaging : (i) Manufacturer's identification mark, i.e. 3M

(ii) Manufacturer's model designation, e.g. 1621AF

(iii) The number and year of this standard, i.e. ANSI/ISEA Z 87.1 : 2010

(iv) SIRIM Certification mark, Please refer to PART I for details

Method of Marking : Printing on the packaging

Label Type	Label Location
MS	On the packaging

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#### Part D: Surveillance Programme

1. Surveillance inspection shall be conducted 2 time(s) yearly.

#### 2. Surveillance test

During the surveillance inspection, routine testing shall be conducted and witnessed by the certification executive. When it is not possible to witness all clauses (due to longtime testing), the certification executive may witness part of the routine test.

The tests involved are (as indicated in the QC Check Points).

Witness testing at factory as per in ANSI/ISEA Z 87.1 :-

5.1.1 Optical quality

5.1.2 Luminous Transmission and haze

5.2 Physical Requirements

7.1.2 High Mass Impact

For these tests, the sample shall be selected by the certification executive.

#### 3. Re-evaluation test

A type test shall be conducted every 5 years on the model appeared on the licence. A full type test is also required when there is significant change in the product design, raw material used and/or production facilities.

- 4. Full type test shall be conducted at any of the following:
  - a. The licensee's facility (when it has been certified acceptable to SIRIM QAS International Sdn Bhd) witnessed by the project officer/competent personnel from SIRIM QAS International Sdn Bhd.
  - b. Third party laboratories acceptable to SIRIM QAS International Sdn Bhd.
  - c. SIRIM QAS International Sdn Bhd testing laboratories.

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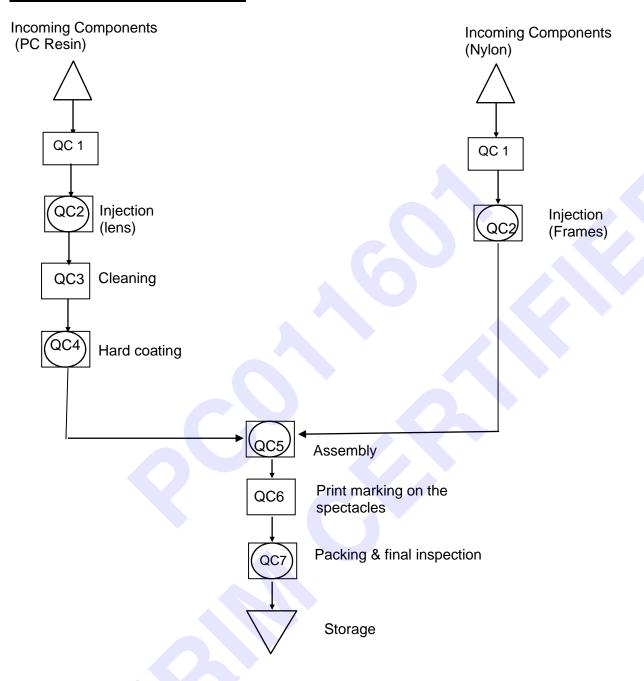
## Part E: Component Materials & Specifications

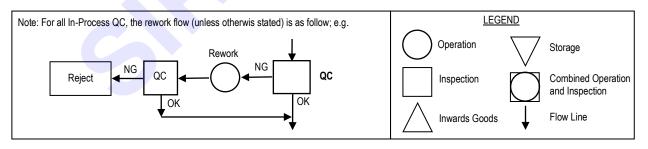
ITEM / COMPONENT	TYPE / GRADE	SUPPLIER
FRAME	Nylon	HONG HUA PLASTICS
	Super tough nylon 66	
LENS	Polycarbonate resin (PC)	LG CHEM
	PC 1302	
ANTI-FOG COATING	AF322	LOCAL SUPPLIER

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### **PART F: PROCESS FLOW CHART**





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## PART G: QC CHECKPOINT

QC NO.	ITEM INSPECTED	TEST/INSPECTION	FREQUENCY
QC1	Polycarbonate Resin	Appearance check by visual     Verify COA from supplier	Every incoming
	Nylon	Appearance check by visual     Verify COA from supplier	
	Coating	1. Appearance check by visual	
QC2	Injection	1. Workmanship	100%
		2. Appearance defect	
QC3	Cleaning	1. Appearance	100%
QC4	Hard coating	1. Appearance	100%
QC5	Assemble spectacle	Workmanship     Appearance defect	100%
QC6	Printing marking	Appearance     Details as per standard /     customer requirement	Every 2 hrs
QC7	Spectacle	Quality of material and surface*	100%
		2) Drop test*	Every lot
		3) High velocity Test*	
		Luminous Transmittance*     Optical Parameter*	

<sup>(\*)</sup> Routine Test to be conducted by licensee and to be witnessed by SIRIM QAS Intl. project officer during surveillance inspection.

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#### **Part H: TEST EQUIPMENTS**

The applicant undertakes to maintain (calibrate, verify or both) the following test equipment in the factory.

No.	Equipment	Range and Calibrated parameter	Frequency
1.	Vernier caliper	0 - 150, mm	Yearly
2.	Weight balancer	0 - 3, kg	Yearly
3.	Increased robustness test (drop ball test) machine	0 - 1500, mm 0 - 500, g	Yearly
4.	Optical Parameter Machine	0.26 – 0.49, prism	Yearly
5.	High Velocity Test Machine	10 – 700, ft/sec	Yearly
6.	Luminous Transmittance Machine	280nm – 780, nm	Yearly

### Part I: EXAMPLE OF MARKING

1. Examples of SIRIM Certification Mark;



Certified to ANSI/ISEA Z 87.1 : 2010 Certification No.: PC011601



ANSI/ISEA Z 87.1 : 2010 PC011601

2. Logo associated with trademark;



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# **ANNEX (PRODUCT PHOTO)**

## MODEL 12163-00000-20



## **MODEL SF3701ASGAF-BLU**



## **MODEL SF3703ASGAF-BLU**



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### **MODEL SF3707ASGAF-BLU**



## MODEL SF37502AS-BLU

