SIRIM QAS International Sdn. Bhd.
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SAMM 087

TEST REPORT

REPORT NO : 2022CE2501	PAGE : 1 OF 8

THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant	: KARE FOR U SDN. BHD. No. 3, 5 & 7, Jalan TSB 8, Taman Industri Sungai Buloh, 47000 Sg. Buloh, Selangor, Malaysia. File No.: P1B001945 Reference No.: 09-22-KAREFORU (Requested by ICCS1, SIRIM QAS International Sdn. Bhd.)
Manufacturer	: ULINE KOREA CO., LTD. 54, Hwanggeum-Ro 127 Beon-Gil, Yangchon-Eup, 10048 Gunpo-Si, Gyeonggi-Do, Republic of Korea.
Product	: Non-Medical Face Masks
Reference Standard / Method of Test	: SIRIM 40 : 2020 – Title: Non-medical face masks - Specifications
Description of sample	: Received one (1) sample of Non-Medical Face Masks for testing which was described in Page No. 2
Date Received of Complete Application	: 21 September 2022
Job No.	: J20223672028
Description of Test Results	: This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample are described in next pages of this test report
Issued Date	: 11 October 2022

Approved Signatory;

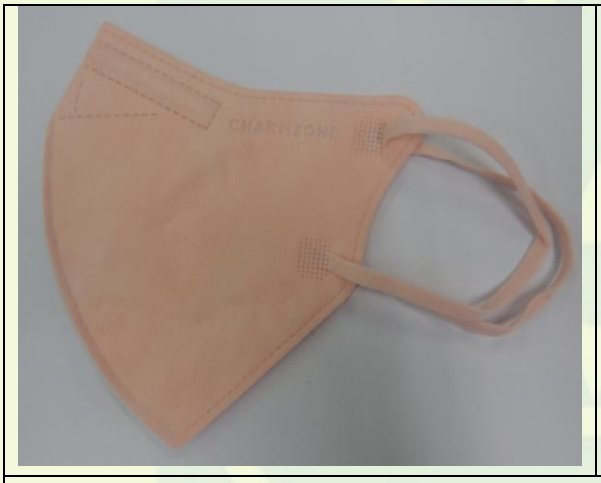
SIRIM QAS International Sdn. Bhd. CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

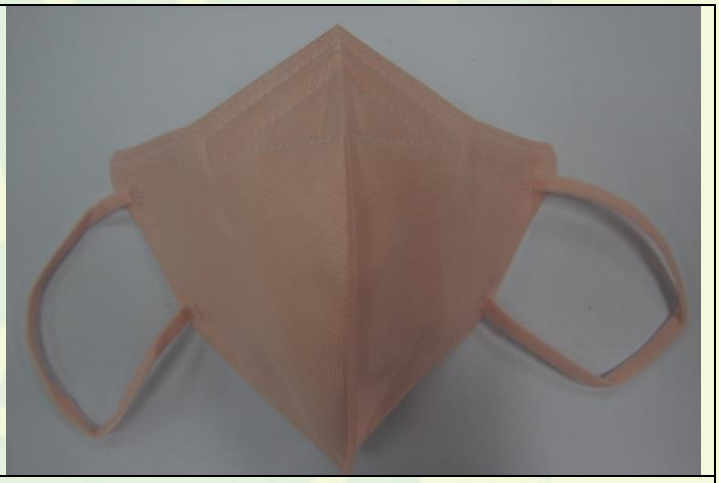
(MUHAMMAD FAIZ BIN ZAINOL)	(HAHNAS BINTI MAHBUT)
Testing Executive	Head Chemical, Polymer and Composite Section Testing Services Department

Descriptions of sample:

Product	:	**Non-Medical Face Masks**
Brand	:	**CHARMZONE**
Model	:	**TONE UP FIT**
Type	:	**Daily Protective Mask**
Rating	:	**Filtration Efficiency Level 90%**

Photo of sample received:





Non-Medical Face Masks (CHARMZONE)

SIRIM QAS International Sdn. Bhd.
CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

Test Results:

Product : Non-Medical Face Masks
Brand : CHARMZONE
Model : TONE UP FIT
Type : Daily Protective Mask
Rating : Filtration Efficiency Level 90%

No.	Type of Tests	Requirements SIRIM 40 : 2020 Clause 4 Requirements	Results	Remarks
1.	General (SIRIM 40:2020 Clause 4.1)	Clause 4.1 Non-medical face mask shall be made with minimum three layers, depending on the fabric used	The non-medical face mask was made from three layers	Pass
2.	Design and dimension (SIRIM 40:2020 Clause 4.2)	Clause 4.2.1 Non-medical face mask may be designed in different shapes and structures which include flat-fold or duckbill	The non-medical face mask was designed with flat-fold	-
		Clause 4.2.2 Non-medical face mask shall be designed to cover the nose, cheeks and chin, and sides of the wearer	The non-medical face mask was designed to covering the nose, cheeks and chin and sides of the wearer	Pass
		Clause 4.2.3 Non-medical face mask shall not incorporate any exhalation and/or inhalation valve(s)	The non-medical face mask was not incorporated with any exhalation and/or inhalation valve(s)	Pass
		Clause 4.2.4 Non-medical face mask shall have a means by which it can be fitted closely over the nose, cheeks, and chin of the wearer. The non-medical face mask should be able to be adjusted with the head harness or the ear band requirements shall be as prescribed in SIRIM 40 Clause 4.4	The non-medical face mask was able to be fitted closely over the nose, cheeks, and chin of the wearer. (Please refer page No. 5 for the non-medical face mask ear band requirements)	Pass
		Clause 4.2.5 Non-medical face mask may be fitted with a nose clip or nose bridge which, if included, shall be adjustable	The non-medical face mask was fitted with adjustable nose bridge	Pass
		Clause 4.2.6 Parts of the non-medical face mask likely to be in contact with the wearer shall be free of sharp edges or burrs	The parts of non-medical face mask that likely to be contact with the wearer was free from sharp edges or burrs	Pass
		Clause 4.2.7 In the designing of the non-medical face mask, ergonomic factors should be considered so that the protective function of the non-medical face mask is maintained at the best possible level of comfort of the wearer	The ergonomic factors were considered in the designing of the non-medical face mask in order to ensure the protective function of the non-medical face mask was maintained at the best possible level of comfort of the wearer	Pass

Note:

1) Testing period: 20th September 2022 to 7th October 2022

2) Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%

SIRIM QAS International Sdn. Bhd.
CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

Test Results:

Product : Non-Medical Face Masks
Brand : CHARMZONE
Model : TONE UP FIT
Type : Daily Protective Mask
Rating : Filtration Efficiency Level 90%

No.	Type of Tests	Requirements SIRIM 40 : 2020 Clause 4 Requirements	Results	Remarks
3.	Materials and construction (SIRIM 40:2020 Clause 4.3)	Clause 4.3.1 The materials used shall be able to withstand handling and wear throughout the lifetime of the mask, or over the period for which the mask is designed to be used, as specified by the manufacturer	The materials used was able to withstand handling and wear over the period of the mask that designed to be used as specified by the manufacturer	Pass
		Clause 4.3.2 Materials used shall not present known risks or irritation or any adverse effects to the wearer	The materials used did not present known risks to the wearer	Pass
		Clause 4.3.3 Substances that may be released into the inhaled air from materials used should not constitute a hazard or nuisance to the wearer	Not applicable	-
		Clause 4.3.4 For reusable non-medical face mask, materials used in the innermost layer of the mask should be made from hydrophilic material (e.g cotton or cotton blends). The outermost layer of the mask should be made from hydrophobic material (e.g polypropylene, polyester or blend of both), which may limit external contamination from wearer's nose and mouth. The middle layer of the mask should be made of hydrophobic layer of synthetic non-woven materials such as polypropylene which may enhance filtration	Not applicable (Disposable type non-medical face mask)	-
		Clause 4.3.5 Coating of the material with compounds like wax to increase barrier and render the mask fluid resistant is not recommended as such coatings may decrease breathability of the mask	Not applicable (No coating used on the materials)	-
		Clause 4.3.6 For disposable non-medical face mask, the outer and inner layers should be of non-woven material with the middle layer made from meltblown filter	The disposable non-medical face mask was made from non-woven material for the outer and inner layers, with the middle layer made from meltblown filter	Pass
		Clause 4.3.7 The selection of materials to be used should also take into account the ability of the materials to be recycled or composted to ensure sustainability	Not applicable	-

Note:

1) Testing period: 20th September 2022 to 7th October 2022.

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SIRIM QAS International Sdn. Bhd.
CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

Test Results:

Product : Non-Medical Face Masks
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No.	Type of Test	Requirements SIRIM 40 : 2020 Clause 4 Requirements	Results	Remarks
4.	Head Harness or Earband (SIRIM 40:2020 Clause 4.4) *Test conditions:* *Testing Speed : 100mm/min* *No. of Specimens: 5*	The head harness or earband should be designed such that the mask can be donned and removed easily	The earband was designed that the mask can be donned and removed easily	Pass
		It should be sufficiently sturdy to hold the mask in place in such way as to avoid excessive tightness and discomfort when worn	The earband was sufficiently sturdy to hold the mask in place in such way as to avoid excessive tightness and discomfort when worn	Pass
		The head harness or earband can be made from elastic strip or a fabric tie of bias-tape type or any other type, attached to the mask body. It can be sewn or glued, and the joint strength of each head harness or earband at the point of connection with the mask body shall not be less than 10N when tested in accordance with the test method as prescribed in SIRIM 40 Clause 5.2.	The earband was made from elastic strip and attached to the mask body by glued The average Joint Strength of the earband: 18.2N	Pass Pass

Note:

1) Testing period: 20th September 2022 to 7th October 2022

2) Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%

SIRIM QAS International Sdn. Bhd.
CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

Test Results:

Product : Non-Medical Face Masks
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No.	Type of Tests	Requirements SIRIM 40 : 2020 Clause 4 Requirements	Results	Remarks
5.	Performance requirement (SIRIM 40:2020 Clause 4.5)			
5.1	Breathability (SIRIM 40: 2020 Clause 4.5.1, Clause 5.3 & BS EN 14683 Annex C) *Test Conditions:* *Flow rate : 8 L/min* *Test area of sample : 4.9cm²* *No. of Specimens : 5*	Non-medical face mask shall not present differential pressure exceeding 60 Pa/cm² when tested in accordance with the test method as prescribed in SIRIM 40 Clause 5.3	Average: 53.4 Pa/cm²	Pass
5.2	Microbial Cleanliness* (SIRIM 40: 2020 Clause 4.5.2, Clause 5.4 & BS EN 14683) *No of Specimens : 5*	The bioburden of disposable non-medical face mask shall be a maximum of 30 cfu/g when tested in accordance with the test method as prescribed in SIRIM 40 Clause 5.4	Average: 3 cfu/g	Pass
5.3	Filtration efficiency (SIRIM 40: 2020 Clause 4.5.3, Clause 5.5 & ASTM F2299) *Test Parameters:* *Test flow rate : 28 L/min* *Face velocities : 4.7 cm/s* *Test Area : 100 cm²* *Sample Time : 60s* *Aerosol Type : PSL* *Size Particle Counting : 3.0µm* *No. of Specimens : 5*	Non-medical face mask shall have minimum filteration efficiency of 70% for particles with size of (3 ± 0.5 µm) when tested accordance with test method as prescribed in SIRIM 40 Clause 5.5	Average: > 99.9%	Pass
5.4	Flame spread (flammability) (SIRIM 40: 2020 Clause 4.5.4 & 16 CFR Part 1610) *Test Conditions:* *Flame length : 16 mm* *Flame Impinges : 1 seconds* *No. of Specimens: 5*	Materials used in the construction of non-medical face mask shall meet the requirements for Class 1, normal flammability specified in 16 CFR Part 1610	Class 1	Pass

Note:

1) Testing period: 20th September 2022 to 7th October 2022

2) * Microbial Cleanliness test was conducted by SIRIM Industrial Biotechnology Research Centre (IBRC) (Not SAMM accredited)

3) Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%

4) PSL = Latex Sphere

SIRIM QAS International Sdn. Bhd. CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

Test Results:

Product : Non-Medical Face Masks
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No.	Type of Test	Requirements SIRIM 40 : 2020 Clause 4 Requirements	Result	Remark
6.	Cleaning (SIRIM 40:2020 Clause 4.6)	If the non-medical face mask is designed to be reusable; the materials used shall be able to withstand cleaning, disinfecting agents, cleaning procedure (including drying) specified by the manufacturer or in accordance to ISO 6330. The mask shall withstand at least 5 wash cycles. The full wash cycle (wetting, washing and rinsing) shall be at least 30 minutes with a wash temperature of 60 ºC using normal laundry products Visual inspection shall be carried out after each wash cycle. If any damage to the mask is detected (e.g. less well fitting, deformation, wear, etc,.) after a wash cycle, the mask shall be deemed non-compliant	Not applicable (Disposable type non-medical face mask)	-

SIRIM QAS International Sdn. Bhd.
CHEMICAL, POLYMER AND COMPOSITE SECTION (CPCT)

CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule with Guard Band is used.

2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.

3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.

4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.

5. Customer (Applicant/Manufacture/Factory,etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.

6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory,etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall only include the phrase, "A sample of this product has been tested by SIRIM QAS International ...(Test Report No) ...(dated) ...(for what test) ...(to which standard)" or such similar words which stress that only the sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.

7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.

8. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
   a) Informing and placing a notice in the media;
   b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
   c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
   d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
   e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.

9. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.

10. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
    a) Changes in details of the Applicant name and/or address;
    b) Changes in details of the Manufacturer's name and/or address;
    c) Changes in details of the Factory location name and/or address;
    d) Changes in details of the model and/or type designation

11. However, issuance of Supplementary Report due to the following reasons are FOC :
    a) Misprints and typo errors;
    b) Missing technical information as agreed in PP1 form;
    c) Test data not reported;
    d) Mistake in reporting of test data

12. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.