



TEST REPORT

Test No: 104-14-02-20-1/TNX-2
Date of issue: February 19th, 2020

Client: HAN VIET COMPANY LIMITED

Address: Km14 National Highway 1A, Thanh Tri District, Hanoi

Date of Receipt: February 14th, 2020 Date(s) of performance: From Feb 14th to Feb 19th, 2020

Sample provided and identified by client

Sample Identification: Sample 1: 7Dx64mm ANTIBACTERIAL TPA PROCESSING Fibers.



Test Sample:



Test results: See the next page

VTRI - TTC - VILAS 089 - ISO/IEC 17025



CÔNG TY CỔ PHẦN - VIỆN NGHIÊN CỨU DỆT MAY

VIETNAM TEXTILE RESEARCH INSTITUTE., JSC (VTRI)

TRUNG TÂM THÍ NGHIỆM DỆT MAY

TEXTILE TESTING CENTRE (TTC)



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No.	Items		Units	Test Methods	Results
1	Average breaking strength		G/fibre	Reference to TCVN 4182: 2009	31.8
			CV (%)		2.6
	Average breaking tenacity		G/den		4.6
2	Cut length		mm	ISO 6989:1981 (Method A)	68.0
			CV (%)		9.4
3	Average crimp frequency of manufactured staple fibers		crimp/cm	ASTM D 3937- 12(2018)	4.2
			CV (%)		19.9
4 ¹⁾	Determining Antimicrobial Activity – The percent reduction of the organisms (%)	Escherichia coli ATCC 25922	0 hours (B), CFU/ml	AATCC 100-2012	1.7×10^5
			24 hour (A), CFU/ml		1.3×10^4
			% Reduction (R)		92.3
		Staphylococcus aureus ATCC 6538	0 hours (B), CFU/ml		1.7×10^5
			24 hour (A), CFU/ml		2×10^4
			% Reduction (R)		93.0

Remark:

- 1) Test specimens were incubated at 37°C for 24 h
CFU/ml: colony forming units per milliliter
R = 100 (B-A) / B where:
A: CFU per milliliter after the 1 hour contact time
B: CFU per milliliter at the "0" contact time

*** End of report ***

SIGNED FOR AND ON BEHALF OF VTRI



GIÁM ĐỐC TRUNG TÂM THÍ NGHIỆM
Ths. Bùi Thị Thái Nam

The above results are Results are valid for tested samples provided by applicant only: 600 g
Reproduction a part of this Test Report is not allowed without permission written of Textile Testing Centre.
Client, Sample identification and Manufacturer are introduced at client's requests.

CERTIFICATE OF APPROVAL

TORAY ADVANCED MATERIALS KOREA INC.

- HEAD OFFICE/GINI 3 PLANT : 300, GONGDAN 2-RO, GUMI-SI, GYEONGSANGBUK-DO, KOREA
- SITE:Refer to the Appendix

Korean Standards Association hereby certifies that the Environmental Management System of the above organization has been assessed and found to meet the requirements of the standard and scope of certification detailed below:

CERTIFICATION No. EMS-0084

STANDARD KS 1 ISO 14001:2015/ISO 14001:2015

SCOPE OF CERTIFICATION
SITE:Refer to the Appendix

VALID FROM 24 November 2017

VALID UNTIL 23 November 2020

Original Certification Date : 24 November 1999

• This certificate is renewed due to the integration of the sites

Date of Issue : 01 April 2019


PRESIDENT OF KSA

KOREAN STANDARDS ASSOCIATION

305, Teheran-Ro, Gangnam-Gu, Seoul, Korea

KSA



KSA has been accredited in respect of ISO 14001 covered by the KARI Accreditation Certificate Number KARI-EC-111

CERTIFICATE

The company

Toray Advanced Materials Korea Inc.
35F, FKI Tower 24, Yeoui-Daero
Yeongdeungpo-gu
Seoul 150-881, KOREA, SOUTH

is granted authorisation according to STANDARD 100 by OEKO-TEX® to use
the STANDARD 100 by OEKO-TEX® mark, based on our test report
19.0.79663



for the following articles:

PET staple fibers branded 'ESLON' – regardless of cut length, undyed, dope dyed in sky blue or black, type: Solid (Regular), Low Melting (EZBON-L), Low Melting Black (EZBON-L), Hollow Conjugate (HC), Hollow Conjugate Siliconized (HCS), Micro (DOWNFILL), Short-Cut (Mini-ESLON), Dope Dyed Sky Blue, Dope Dyed Black, PE/PET Bi-Component, PE/PP Bi-Component, Mono PP, High Shrinkage (HS), Antimicrobial (Freshever/Silver), Post-Consumer Recycled (ECOWAY), Recycled Fiberfill (FF), Elastic Binder (E-PLEX), Sound Absorbing (SAF), ESFRON (Flame Retardant); partly finished with flame retardant and biological active products accepted by OEKO-TEX®.

The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Appendix 6, product class I have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Appendix 6 for baby articles.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

The certificate 16.HKR.87105 is valid until 31.07.2020

Bönnigheim, 30.07.2019


Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®



**BẢN DỊCH
TRANSLATION**

**MINISTRY OF HEALTH
NATIONAL INSTITUTE OF MEDICAL
DEVICE AND CONSTRUCTION**

**SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness**

CERTIFICATE OF TEST RESULT

No.: 008920/VTTB-DGCL

Requesting organization: Han Viet Company Limited

Product name: Anti-droplet, anti-bacterial facemask

Model: Without nose clip

Manufacturer: Han Viet Company Limited

Address: Km 14, National Road 1A, Ngoc Hoi Commune, Thanh Tri District, Hanoi City

Origin: Vietnam

Testor: Tran Duc Anh

Method of testing: *Temporary technical instruction for anti-droplet, anti-bacterial cloth facemask* issued in Decision no. 870/QD-BYT dated March 12th 2020 by Minister of Ministry of Health.

Conclusion: The model meets all the technical criteria in accordance with Decision no. 870/QD-BYT.

Hanoi, March 19th 2020

DIRECTOR

(Signed and sealed)

PhD. Le Thanh Hai

S.S.D

Address: 40 Phuong Mai – Dong Da – Hanoi * Tel: (024) 62925544 – 3 8523065 – 3 8521248

TEST REPORT

Specifications

No.	Content	Requirement	Qualified	Underqualified
1	Structure and material	3 layers of cloth. The outer layer is airy with smooth surface. Water-resistant and anti-droplet. String with good elasticity.	X	
2	Anti-droplet efficiency	Filtration efficiency with oil droplet is no less than 90%	X	
3	Airway resistance (mmH ₂ O)	Airway resistance is no more than 9 mmH ₂ O	X	
4	Permissible limit of heavy metal content			
4.1	Arsenic content (As)	0.17 mg/kg	X	
4.2	Lead content (Pb)	1.00 mg/kg	X	
4.3	Mercury content (Hg)	0.12 mg/kg	X	
4.4	Antimony content (Sb)	0.10 mg/kg	X	
4.5	Cadmium content (Cd)	0.10 mg/kg	X	

** This test report is only valid with the samples provided by Han Viet Company Limited to National Institute of Medical Device and Construction on March 17th 2020.*

SUPERVISOR
(Signed)

Ha Quang Thanh

Hanoi, March 19th 2020

TESTOR
(Signed)

Tran Duc Anh

Address: 40 Phuong Mai – Dong Da – Hanoi * Tel: (024) 62925544 – 3 8523065 – 3 8521248