



**Foundation for Industrial Development
Thailand Textile Institute / Textile Testing Center**

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NSC - TISI - TIS 17025
TESTING 0110

TEST REPORT

CLIENT:	PERMA CORPORATION CO., LTD. 311 2 ND FLOOR, SOI CHOKECHAIJONGJUMROEN, RAMA 3 RD., BANGPONGPANG, YANNAWA, BANGKOK 10120	REPORT NUMBER:	G 0816/61
		APPLICATION FORM No.:	-
		ISSUE DATE:	28/02/18
		PAGE:	1/2
DATE OF RECEIPT:	08/12/17		
DATE OF TEST:	08/12/17-28/02/18		
SAMPLE NUMBER	SAMPLE NAMES (AS SPECIFIED BY THE CLIENT)		
G 0814-1/61	KNITTING FABRIC COLOUR : GREEN		

TEST RESULT(S): REFER TO THE FOLLOWING PAGE(S)

COMMENT(S): BASED ON THE SUBMITTED SAMPLE(S) AND THE TEST RESULT(S)

ANTIBACTERIAL FINISHES ON TEXTILE MATERIALS : S

S = SEE THE ATTACHED RESULT(S)

REMARK(S): ANTIBACTERIAL TEST BEFORE WASHING REFERS TO REPORT No. G(R) 0814/61 DATED 07/02/18

AUTHORIZED BY

(MS. KANYARAT RANGSANGA)
(SCIENTIST)

145129

“การปลอมรายงานผลการทดสอบ ไม่ว่าจะเป็นการปลอมทั้งฉบับหรือแต่ส่วนหนึ่งส่วนใด หรือใช้รายงานผลการทดสอบปลอม เป็นความผิดตามประมวลกฎหมายอาญา”

This test report refers to the submitted sample(s) for testing/examining/analyzing only. It is not certified for the advertisement or reference of the products/goods. The total or the part of this report may not be reproduced without the written approval from Textile Testing Center, Thailand Textile Institute.

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G 0814-1/61			CLIENT'S REQUIREMENT
ANTIBACTERIAL FINISHES ON TEXTILE MATERIALS: AATCC TM 100: 2012			
TESTED MICROORGANISM:	0 HOUR (C)	24 HOURS (A)	% REDUCTION (R)
- <i>Staphylococcus aureus</i> ATCC 6538	1.8 x 10 ⁵	<100	>99.94

G 0814-1/61 (AFTER 150 WASHES) ⁽¹⁾			CLIENT'S REQUIREMENT
ANTIBACTERIAL FINISHES ON TEXTILE MATERIALS: AATCC TM 100: 2012			
TESTED MICROORGANISM:	0 HOUR (C)	24 HOURS (A)	% REDUCTION (R)
- <i>Staphylococcus aureus</i> ATCC 6538	1.4 x 10 ⁵	<100	>99.93

- REMARK(S): ⁽¹⁾ WASHING PROCEDURE
- TEST APPARATUS : AUTOMATIC WASHING MACHINE (WHIRLPOOL MODEL 3XGSC9455JQ)
 - WASHING PROCEDURE : NORMAL CYCLE, WASH LOAD BALLAST TYPE 1 (1.8 KG)
WASHING TEMPERATURE AT 60 ± 3 °C, TUMBLE DRY LOW
 - TYPE OF DETERGENT : 1993 AATCC STANDARD REFERENCE DETERGENT
 - TOTAL MASS OF THE SPECIMENS AND LOADING FABRICS : 1.8±0.1 KG
- ANTIBACTERIAL TESTING
- THE TEST SPECIMENS WERE STERILIZED BEFORE TESTING BY USING THE AUTOCLAVE AT 121 °C, 15 psi, 15 MINUTES.
 - % REDUCTION (R) = 100 (C-A)/C
 - WHERE: (A) = THE NUMBER OF BACTERIA RECOVERED FROM THE INOCULATED TREATED TEST SPECIMEN SWATCHES IN THE JAR AFTER "24 HOURS" CONTACT TIME.
 - (C) = THE NUMBER OF BACTERIA RECOVERED FROM THE INOCULATED UNTREATED CONTROL SWATCHES IN THE JAR AT "0 HOUR" CONTACT TIME.

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