

# TEST REPORT

APPLICANT : HANWHA L&C CORP. BUKANG PLANT1

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REPORT NO.	: D217-09-00042
SAMPLE RECEIVED DATE	: 2009-12-21
TEST STARTED DATE	: 2009-12-21
REPORT ISSUED DATE	: 2010-01-25
PAGE	:1 OF 5

SAMPLE DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE TILE.

ITEM : N-white hanex

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TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

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PREPARED AND CHECKED BY FOR FITI

emppil Tak

JEONG PIL, TAK QUALITY MANAGER AUTHORIZED BY FOR FITI

moon Oh noh

MOON-OK NOH EXECUTIVE DIRECTOR



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FieldTesting &<br/>Research Institute892-64 Jegi2-dong, Dongdaemun-gu, Seoul, Korea, 130-864<br/>Tel : +82-2-3299-8006/9 Fax : +82-2-3299-8150/1<br/>www.fiti.re.kr

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TEST CONDUCTED

## TEST RESULT

(01) ANTIMICROBIAL ACTIVITY AND EFFICACY (FILM-CONTACT METHOD, JIS Z 2801:2006 ) : CELLS/mℓ,

VALUE OF ANTIMICROBIAL ACTIVITY: log

		BLANK	#1
BACTER I A-1	AT BEGINNING	2.9 X 10 <sup>5</sup>	2.9 X 10 <sup>5</sup>
	AFTER 24HRS.	$3.8 \times 10^5$	< 10
	VALUE OF ANTI-MICROBIAL ACTIVITY	-	4.6
BACTERIA-2	AT BEGINNING	1.8 X 10 <sup>5</sup>	1.8 X 10 <sup>5</sup>
	AFTER 24HRS.	2.7 X 10 <sup>7</sup>	< 10
	VALUE OF ANTI-MICROBIAL ACTIVITY	-	6.4

NOTE) STANDARD FILM : STOMACHER 400 POLY-BAG

TEST CONDITION : THE SOLUTION ARE FIXED AT (35±1)℃, RH 90% FOR 24h, AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY POUR AGAR PLATE METHOD.

TEST BACTERIA : BACTERIA-1 - Staphylococcus aureus ATCC 6538P.

BACTERIA-2 - Escherichia coli ATCC 8739.

ANTIMICROBIAL EFFICACY : THE VALUE OF ANTIMICROBIAL ACTIVITY SHALL NOT BE LESS THAN 2.0 log.

< = LESS THAN.

**e**-DOCUMENT SERVICE

SEE ATTACHED PHOTOS.

(01) DETERMINATION RESISTANCE OF SYNTHETIC POLYMERIC MATERIAL TO FUNGI ( ASTM G 21-96:2002 ) : RATE

#1

0

NOTE)	RATE	: 0 = NONE.
		1 = TRACE OF GROWTH (LESS THAN 10%).
		2 = LIGHT GROWTH (10 TO 30%).
		3 = MEDIUM GROWTH (30 TO 60%).
		4 = HEAVY GROWTH (60% TO COMPLATE COVERAGE).
	TEST ORGANISM	: Aspergillus niger ATCC 9642.
		Chaetomium globosum ATCC 6205.
		Penicillium pinophilum ATCC 11797.
		Gliocladium virens ATCC 9645.
		Aureobasidium pullulans ATCC 15233.
	SEE ATTACHED F	HOTOS.

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### TEST CONDUCTED

#### TEST RESULT



- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO : BACTERIA-1 : BLANK -

- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO : BACTERIA-1 : #1 -



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### TEST CONDUCTED

#### TEST RESULT



- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO : BACTERIA-2 : BLANK -

- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO : BACTERIA-2 : #1 -



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### TEST CONDUCTED

#### TEST RESULT \_\_\_\_\_

- DETERMINATION RESISTANCE OF SYNTHETIC POLYMERIC MATERIAL TO FUNGI : VIABILITY -



- DETERMINATION RESISTANCE OF SYNTHETIC POLYMERIC MATERIAL TO FUNGI : #1 -



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