

TEST REPORT

OUR REF. NO.: 747-2021-04012504
REPORT NO.: AR-21-EZ-037872-01

DATE: 10/05/2021

COMPANY : MING HSIN FILM CO., LTD
 1F, NO.29 LANE 155 SECTION 6
 YANPING NORTH SHIHLIN DISTRICT
 TAIPEI, TAIWAN

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DATE SAMPLE RECEIVED : 29/04/2021

DATE OF TESTING : 03/05/2021- 06/05/2021

SAMPLE DESCRIPTION : FILM APPLIED ON 5cm x 5cm GLASS

TEST METHOD USED : With reference to BS ISO 22196: 2001 – Measurement of antibacterial activity on plastics and other non-porous surfaces [MOD]

ON ANALYSIS, THE FOLLOWING RESULTS WERE OBTAINED:

1) TEST MICROORGANISM USED: *Staphylococcus aureus* ATCC 6538

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells test microorganisms per test piece		Value of Antimicrobial Activity	Percentage Kill of Test Microorganism
	0 hour	24 hours		
Generic HP 35 Window Film (control)	1.3 x 10 ⁵	3.3 x 10 ⁴	-	-
Z IR Antimicrobial Film	-	11 , 9	3.52	99.97

2) TEST MICROORGANISM USED: *Escherichia coli* ATCC 8739

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells test microorganisms per test piece		Value of Antimicrobial Activity	Percentage Kill of Test Microorganism
	0 hour	24 hours		
Generic HP 35 Window Film (control)	1.5 x 10 ⁵	3.7 x 10 ⁴	-	-
Z IR Antimicrobial Film	-	3 , 7	3.87	99.99



Teh Hooi Kuan
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 (MICROBIOLOGY)