



Report of Analysis

Date of Sample(s) Received:

. Pakut

25.08.2020

Report No:

MUM/001602A/2020

Date of Job Started: Sample Number(s): 27.08.2020 13299606 Date of Job Completed: Report Date:

03.09.2020 03.09.2020

Sample Label: Micro Fight-006 (0.2% chips) (NS/240820-01) Qty 12 Nos. - Laboratory ref. no. 13299606

Base Polymer: LLDPE + Color + Anti-microbial additive MF 006

Customer Name: ASHIRVAD PIPES PVT. LTD., Bangalore, Karnataka

Product:: Micro Fight-006 (0.2% chips) METHOD: JIS Z 2801

Sr. No.	Title	Plastics - Measurement of antibacterial activity on plastics and other non-porous surfaces	
1	Type, Size, Shape & Thickness of Antibacterial treated Test sample	Micro Fight-006 (0.2% chips), 4 X 4cm, square 3mm	
2	Type, Size, Shape & Thickness of Un-treated sample	Control chips (NS/240820-03) 4 X 4 cm, square 3mm	
3	Type, Size, Shape of Film used to cover test and control sample after inoculation	Polyethene Film of 3 x 3 cm, square <1mm	
	Number of viable bacteria in test	S. aureus ATCC 6538 2.5 x10 ⁵ cfu/ml	
4	inoculum	E. coli ATCC 8739 2.7 x10 ⁵ cfu/ml	
5	Volume of test inoculum inoculated	0.4 ml	

1. Test Bacteria: Staphylococcus aureus ATCC 6538

UNTREATED: Conc. of Inoc	Log = 4.07		
UNTREATED: Conc. of Inco	Log = 5.56		
No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
<10	1	4.56	>99.99

2. Test Bacteria: Escherichia coli ATCC 8739

UNTREATED: Conc. of Inoc	Log = 4.09		
UNTREATED: Conc. of Inoc	Log = 5.34		
No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
<10	1	4.34	>99.99

Acceptance criteria: R is ≥ 2.0

Interpretation: When tested as specified in JIS Z 2801, the Micro Fight-006 (0.2% chips) PASSES to show Anti-Microbial activity where R is \geq 2.0.

Authorized Signatory

Dhanashree Bhelose

Asst. Manager - Business Development & Laboratory Caleb Brett

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