

Report Number :

BOMT15035544



NUMBER : BOMT15035544

DATE : 22-Sep-2015

APPLICANT : **Pulp & Fibre Innovation Centre**
A unit of Grasim Industries Limited, Plot
No. 1 & 1- A/1, MIDC Taloja, Section NC-1 &
NC-2-Panvel, Raigad, Maharashtra, 410208,
INDIA
ATTN : **Sushant Murudkar**

Sample Description : ONE PACKET OF SUBMITTED FIBER SAMPLE, MARKED AS
140915-A.
Date Received/Date Test Started : 16 Sep 2015
Date Confirmation Received : -
Buyer : NOT PROVIDED
Order No : -
Fibre Content :
Color : -
Style No :
Article No :

**TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE
REFER TO ENCLOSED PAGE(S)**

AUTHORIZED BY
FOR Intertek India Private Limited - [Mumbai]



SUNDARMURTHY KRISHNAN
NATIONAL HEAD - PHYSICAL

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

Name of Test:Evaluation of Antimicrobial Activity of Fabric samples by **ASTM: E 2149-13a Method****Test Organisms Used:**

1. Staphylococcus aureus ATCC 6538 (2.00×10^5 CFU/ ml)
2. Klebsiella pneumoniae ATCC 4352 (2.00×10^5 CFU/ ml)

Quantity of Sample:

1 gram

Results:Fibre pieces in contact with bacterial suspension on wrist arm shaker for **24 hr** shows -

Sample Identification	Test Organism	No. of Bacteria per sample (CFU/ ml)		Percentage Reduction of Bacteria (R)
		Inoculated Treated Sample at 0 hrs. (B)	Inoculated Treated Sample at 24 hrs.(A)	
FIBER	Staph. aureus	1.98×10^5	1.40×10^2	99.29
	K. pneumoniae	2.04×10^5	1.15×10^3	99.43

REMARKS:

1. CFU: Colony Forming Unit = No. of Microorganisms
2. Percentage Reduction of Microorganism (R) = $100 (B - A / B)$

INTERPRETATION:Fiber labeled as **FIBER** has shown **99.29%** and **99.43%** antimicrobial activity towards Staphylococcus aureus and Klebsiella pneumoniae respectively when tested according to **ASTM: E 2149-13a Method**.

END OF THE TEST REPORT

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