

**Report Number :**

**BOMT15034726**



NUMBER : BOMT15034726

DATE : 16-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  
080915-B.  
Date Received/Date Test Started : 10 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 x 10<sup>5</sup> CFU/ ml)
2. Klebsiella pneumoniae ATCC 4352 (2.00 x 10<sup>5</sup> 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 Sample at 0 hrs. (B)	Treated Sample at 24 hrs.(A)	
FIBER	Staph. aureus	2.05 x 10 <sup>5</sup>	1.50 x 10 <sup>2</sup>	99.92
	K. pneumoniae	1.98 x 10 <sup>5</sup>	1.42 x 10 <sup>3</sup>	99.28

**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 **99.92%** and **99.28%** antimicrobial activity; towards Staphylococcus aureus and Klebsiella pneumoniae respectively when tested according to **ASTM: E 2149-13a Method**.

## END OF THE TEST REPORT ##

*This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Addressee in respect of this report and only accepts liability to the Addressee insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute.*