



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

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TEST CERTIFICATE

000134071

Issued to :
ALP OVERSEAS PVT. LTD.
PLOT NO. 32, SECTOR-18, HUDA
GURGAON - 122015, HARYANA

J.O.No. 906-111-1297
Reg.No. 1190005
Date 04-07-2009
GC-01 (REV-04)

Your Ref.No. -

Kind Attn: MR. SANJAY MATHUR, SR. MANAGER

Date 15.06.2009

Sample Particulars :
ONE SAMPLE OF A-FLAX ELASTROMATIC NITRILE RUBBER INSULATIONS MATARIAL WAS RECEIVED.

TEST RESULTS

PROTOCOL

As per guidelines of
JIS - Z 2801-2000

TEST : Evaluation of Antimicrobial activity of the rubber samples.

- 1) Antimicrobial Activity against *Escherichia coli* ATCC 8739
- 2) Sample Size : 50 mm × 50 mm x 8mm

S. No.	Control Sample (marked as untreated)	Count per piece, (in cfu/piece)	Conc. of Inoculum {Average count, (in cfu/piece)}
1.0	Number of bacteria inoculated per piece at 0 Hrs. (A)	3.1×10^5	3.2×10^5
		3.5×10^5	
		3.0×10^5	
2.0	Number of bacteria inoculated per piece after 24 Hrs incubation. (B)	3.0×10^2	4.0×10^2
		4.0×10^2	
		5.0×10^2	

S. No.	Sample (marked as treated)	Count per piece, (in cfu/piece)	Conc. of Inoculum {Average count (C), (in cfu/piece)}	Antimicrobial Activity after 24hrs {log (B/C)}
3.0	Number of bacteria inoculated per piece after 24 Hrs incubation. (C)	10	10	1.60
		10		
		10		

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TEST : Evaluation of Antimicrobial activity of the rubber samples.


- 1) Antimicrobial Activity against *Staphylococcus aureus* ATCC 6538
- 2) Sample Size : 50 mm × 50 mm × 8mm

S. No.	Control Sample (marked as untreated)	Count per piece, (in cfu/piece)	Conc. of Inoculum {Average count , (in cfu/piece)}
4.0	Number of bacteria inoculated per piece at 0 Hrs. (A)	2.2×10^5	2.5×10^5
		2.4×10^5	
		2.8×10^5	
5.0	Number of bacteria inoculated per piece after 24Hrs incubation. (B)	3.0×10^2	5.3×10^2
		8.0×10^2	
		5.0×10^2	

S. No.	Sample (marked as treated)	Count per piece, (in cfu/piece)	Conc. of Inoculum {Average count (C), (in cfu/piece)}	Antimicrobial Activity after 24hr {log (B/C)}
6.0	Number of bacteria inoculated per piece after 24 Hrs incubation. (C)	10	10	1.72
		10		
		10		

DOR: 15-06-09
DOC: 04-07-09




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