

ThermoVeil® for Healthcare

A Report by Morton Thiokol/Ventron Laboratory
on ThermoVeil's Resistance to Micro-organisms



The Resistance of MechoShade ThermoVeil to Micro-organisms

A Morton Thiokol/Ventron Laboratory Report for MechoShade Systems, Inc.
42-03 35th Street
Long Island City, NY 11101
Technical Service Laboratory Report
No. 88-286, July 15, 1988

Introduction

One sample of vinyl coated fabric identified as MechoShade ThermoVeil for hospital drapery and shades application was submitted by a representative for MechoShade Systems for evaluation of resistance to bacterial and fungal microorganisms.

Summary

The sample of MechoShade ThermoVeil demonstrated excellent resistance against bacterial and fungal organisms as tested in accordance with ASTM G-22-80 and ASTM G-21-85. This sample also showed highly effective activity against *Staphylococcus aureus* in a bacterial zone of inhibition test.

Results

The sample was tested for resistance to micro-organisms as described in the appendix.

Bacterial Resistance

Sample	<i>Staphylococcus aureus</i> Zone of Inhibition (mm)/Growth	<i>Pseudomonas aeruginosa</i> ASTM G-22-80 Bacterial Growth
MechoShade ThermoVeil	8/NGCA	No Growth

Mildew Resistance

Sample	ASTM G-21-85 Fungal Growth
MechoShade ThermoVeil	No Growth

Note: Photographs of the tests are enclosed [shown above].

(signed)

N.F. Hamilton

(signed)

F.S. Moy, Supervisor

Continued 

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Appendix I

Mildew Resistance

ASTM G-285

The samples were placed on (non-nutrient) material salts agar
and inoculated with a mixed fungal spore suspension of:

<i>Aspergillus niger</i>	ATCC 9642
<i>Penicillium funiculosum</i>	ATCC 9644
<i>Chaetomium globosum</i>	ATCC 6205
<i>Aureogasidium pullulans</i>	ATCC 9348
<i>Gliocladium virens</i>	ATCC 9645

After 21 days incubation at 28° C., antifungal activity was
evaluated by visually rating the degree of fungal growth on the
samples.

Surface fungal growth is rated by the following scale:

No Growth	(NG)
Traces of Growth (less than 10% coverage)	(TG)
Light Growth (10% to 30% coverage)(LG)	
Moderate Growth (30% to 60% coverage)	(MG)
Heavy Growth (60% to complete coverage)	(HG)

ASTM Rating

0 = No Growth
1 = Traces of Growth
2 = Light Growth
3 = Moderate Growth
4 = Heavy Growth

Bacterial resistance, Ventron Method B-20

The samples were placed on nutrient agar inoculated with
Staphylococcus aureus, ATCC 6538.

After 24 hours of incubation at 37 degrees C., antibacterial
activity was evaluated by measuring (in mm) the size of a clear
zone of no growth (Zone of Inhibition) around each sample, and
visually determining growth in contact areas.

Bacterial growth is rated by the following scale:

No Growth Contact Area, (NGCA)

This is a designation frequency used in bacterial tests. Bacterial
organisms are difficult to determine on the sample itself, so the
area immediately under the sample is examined for growth.
This is usually a passing designation and indicates that there
were no bacterial colonies found under the sample.

Growth Contact Area, (GCA)

This indicates failure of the sample since colonies of bacteria
are detected immediately under the sample in contact with the
same.

Bacterial Resistance, ASTM G-22-80.

The sample was placed on mineral salts agar inoculated with
Pseudomonas aeruginosa ATCC13388 (50,000 cells/ml). A
second layer of seeded agar was poured over the sample and
allow to solidify. After 21 days incubation at 37 degrees C.,
antibacterial activity was evaluated by rating the bacterial
growth on the sample.

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