

TEST REPORT

LAB NO.: 2002894/1

DATE: 01/10/2020

NAME OF CUSTOMER

: M/S. MERINO GROUP.

ADDRESS

: 70, KLJ Complex, 2nd Floor,

Moti Nagar, New Delhi - 110015. INDIA

REFERENCE

: Your Letter Ref. Nil dated August 14, 2020 Kind Attention: Deepu Thomas Joseph

DATE OF RECEIPT

: 14/08/2020

ODATE OF INITIATION

: 14/08/2020

DATE OF COMPLETION

: 01/10/2020

SAMPLE DESCRIPTION

: Sample labeled as -

Sr. No.	Sample Code
1.	Gloss Meister - Design No – 25391 – 18 mm Thickness - Color Solar White
Untreated	I lab control

Test Standard:

Customer specified method to determine Fungus Resistance property of Synthetic Polymeric materials to Fungi; E 01 1269/ Equivalent to ASTM: G 21 - 15

Test Scope:

This standard covers determination of the effect of Fungi on the properties of Synthetic polymeric material

Experimental Conditions:

Size of Test specimen

: 50 mms x 50 mms

No of replicates

: Three

Positive Lab Control

: Sterile Filter paper

Media used

: Nutrient Salt agar

Temperature

: 28°C ± 1°C

Humidity

: > 85% Relative Humidity

Duration of Exposure

: 28 days

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[•] Samples are not drawn by the laboratory • Result relate only to the samples tested • This report shall not be reproduced except in full without prior permission of this laboratory



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Procedure:

Specimens of size 50 mms x 50 mms were placed on Nutrient salt agar. Composite spore suspension as listed below was sprayed on specimen. The Nutrient salt agar provides all of the trace nutritional elements needed by Fungi except Carbon source. Fungus grows only when it is able to use polymeric material as Primary carbon source. Inoculated samples were incubated and examined for fungal growth. Temperature and humidity were maintained for the duration of the test. Adequate positive and Negative controls were also included along with specimen.

Mixed spore suspension of -

- 1. Aspergillus niger ATCC 9642
- 2. Penicillium pinophilum ATCC 11797
- 3. Gliocladium virens ATCC 9645
- 4. Chaetobium globosum ATCC 6205
- 5. Aurobasidium pullulans ATCC 15233

Results:

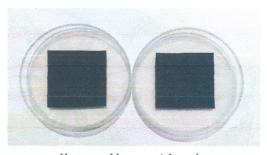
Observations were made on weekly basis for appearance for the density of fungal growth. The filter paper control pieces had copious fungal growth at 2 weeks.

At 4th week, samples were rated "0" or "1" were examined microscopically to confirm the Ratings

Rating scale for the test is as follows:

Growth on specimen	Rating		
None	0		
Trace of Growth (< 10 %)	1		
Light Growth (10 to 30 %)	2		
Medium Growth (30 to 60 %)			
Heavy Growth (60% to complete coverage)			

Sample	Duration of the Test				
Identification	Replicates	Week 1	Week 2	Week 3	Week 4
Gloss Meister - Design No -	Set I	0	0	0	0
25391 – 18 mm Thickness - Color Solar White	Set II	0	0	0	0
(Upper)	Set III	0	0	0	0
Gloss Meister - Design No -	Set I	0-1	1	1-2	3
25391 – 18 mm Thickness -	Set II	0	0	0	0
Color Solar White (Lower)	Set III	0	0	0	0
Control	-	1	3	4	4



Upper and Lower; at 4 weeks

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INTERPRETATION:

Test sample labeled as Gloss Meister - Design No - 25391 - 18 mm Thickness - Color Solar White is Resistant to fungal attack at the end of 28 days of incubation when tested as per specified method.

For BIOTECH TESTING SERVICES

Dr Shilpa U. Nair Quality Manager (Authorized Signatory)

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