

Marlite Inc.

MICROBIOLOGICAL TEST REPORT

SCOPE OF WORK

ASTM D3273 – 2021 STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATING IN AN ENVIRONMENTAL CHAMBERS

PRODUCT

FIBER REINFORCED PLASTIC. MODEL(S): ARTIZAN MAX

LABORATORY REPORT NUMBER

106070436COL-003

ISSUE DATE

11-FEB-2025

TESTING FACILITY

Intertek Columbus Microbiology Laboratory
1717 Arlingate Ln.
Columbus, OH 43228

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-8096
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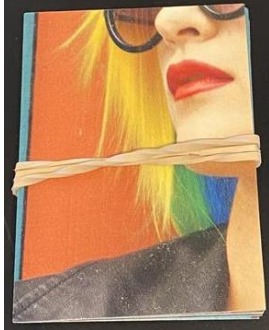


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SECTION 1 REPORT

TEST METHOD	ASTM D3273 – 2021 STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATING IN AN ENVIRONMENTAL CHAMBERS
CLIENT	Marlite Inc. 202 Harger St Dover, OH 44622-2304 USA
LABORATORY PROJECT No.	G106070436
LABORATORY REPORT No.	106070436COL-003
DATES TESTED	01/07/2025 –02/04/2025
REPORT DATE	02/07/2025

SECTION 2 TEST SAMPLE

DESCRIPTION	Fiber Reinforced Plastic
MODEL(S)	Artizan Max
ACQUISITION METHOD	Sample was delivered to test facility
ARRIVAL DATE	01/06/2025
SAMPLE ID	COL2501061202-001
CONDITION	New
DEVELOPMENT LEVEL	Not provided
TEST SAMPLE PHOTO	
Fiber Reinforced Plastic	
Artizan Max	

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SECTION 3 CHALLENGE MICROORGANISMS

Organism	Type	ATCC Number	Source
<i>Aureobasidium pullulans var. melanigenum</i>	Fungus	9348	ATCC
<i>Aspergillus brasiliensis (historically Aspergillus niger)</i>	Fungus	6275	ATCC
<i>Penicillium citrinum</i>	Fungus	9849	ATCC

SECTION 4 TEST SUMMARY

This test method describes the use of an environmental chamber and operating conditions to evaluate the relative resistance of interior coatings to surface fungal growth in a severe interior environment during a 4-week period. This test method can be used to evaluate the comparative resistance of interior coatings to accelerated mold growth.

The test samples are rated from 0 to 10, based on the amount of fungal growth at the end of the 4-week incubation period. **A higher rating corresponds to less fungal growth, with a rating of 10 meaning no fungal growth/defacement.**

SECTION 5 RESULT SUMMARY

Sample	Growth Rating	Description
Artizan Max	10	0 defacement
Control (Untreated White Birch Tongue Depressor)	4	51 – 60% defacement

DESCRIPTION AND RATING KEY

Rating	Rating Description
10	0 defacement
9	1 – 10% defacement
8	11 – 20% defacement
7	21 – 30% defacement
6	31 – 40% defacement
5	41 – 50% defacement
4	51 – 60% defacement
3	61 – 70% defacement
2	71 – 80% defacement
1	81 – 90% defacement
0	91 – 100% defacement

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SECTION 6 TEST DATA

Sample Incubation: 01/07/2025 @ 10:00AM – 02/04/2025 @ 11:00AM

WEEKLY RESULTS

Week	Sample	Replicate Number	Growth Rating	Rating Date/Time	Temperature/Humidity
1	Artizan Max	1	10	12/10/2025 @ 11:00AM	33.33°C/99.9%
		2	10		
		3	10		
	Control (White Birch Tongue Depressor)	1	9		
		2	9		
		3	9		
2	Artizan Max	1	10	12/17/2025 @ 11:00AM	33.33°C/99.9%
		2	10		
		3	10		
	Control (White Birch Tongue Depressor)	1	9		
		2	9		
		3	9		
3	Artizan Max	1	10	12/24/2025 @ 11:00AM	33.33°C/99.9%
		2	10		
		3	10		
	Control (White Birch Tongue Depressor)	1	6		
		2	6		
		3	6		
4	Artizan Max	1	10	12/31/2025 @ 11:00AM	33.27°C/99.9%
		2	10		
		3	10		
	Control (White Birch Tongue Depressor)	1	4		
		2	4		
		3	4		

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SECTION 7 PHOTOS



Photo 1. Artizan Max, after 4 weeks exposure.



Photo 2. Control (Untreated White Birch Tongue Depressor) after 4 weeks exposure.

Test Performed by:



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