

Report to: Loyal Dodd  
Basecrete Technologies LLC  
7969 Moyer Ave  
Sarasota, FL 34240

**Sample Description: One Poly Modified Micro Topping Sample**

Date Received: December 17, 2021  
Test(s) Requested: WVTR - Water (ASTM E96/E96M)  
PO Number: Credit Card

**Analysis of One Poly Modified Micro Topping Sample**

SGS-IPS Testing performed the testing listed above on one poly modified micro topping sample provided by Basecrete Technologies LLC. Please note, per customer agreement, the specimens were sanded down to create the required 3-inch circle specimens for testing. Results are summarized in Table 1 on the following pages of this report and in Chart 1 at the end of this report.

If you have any additional questions, please contact us.

Authorized by

  
Jeffrey J. Bushner

Lab Manager

Signed



Andrew Smits  
Senior Lab Technician  
Physical Testing  
920-749-3040

Table 1. Physical Properties

Orientation	One Modified Micro Topping Sample	
	Top	Side B

Water Vapor Transmission - Water (ASTM E96/E96M)

Area (m<sup>2</sup>)      0.003166      NA

Weight Change/Time (g/hour)

1	0.00327	NA
2	0.00589	NA
3	0.00679	NA

Average      0.00531      NA  
 Std. Dev.      0.001828      NA  
 Maximum      0.00679      NA  
 Minimum      0.00327      NA  
 n=      3      NA

WVTR (g/(h\*m<sup>2</sup>))

1	1.0	NA
2	1.9	NA
3	2.1	NA

Average      1.7      NA  
 Std. Dev.      0.58      NA  
 Maximum      2.1      NA  
 Minimum      1.0      NA  
 n=      3      NA

WVTR (g/m<sup>2</sup>/day)

1	25	NA
2	45	NA
3	51	NA

Average      40      NA  
 Std. Dev.      13.9      NA  
 Maximum      51      NA  
 Minimum      25      NA  
 n=      3      NA

Vapor Pressure Difference (Pa)      1400      NA

Table 1. Physical Properties (contd.)

Orientation	One Modified Micro Topping Sample	
	Top	Side B
Permeance (g/(s*m <sup>2</sup> *Pa))		
1	2.0E-7	NA
2	3.7E-7	NA
3	4.2E-7	NA
Average	3.3E-7	NA
Std. Dev.	1.14E-7	NA
Maximum	4.2E-7	NA
Minimum	2.0E-7	NA
n=	3	NA

Method(s) and Notes:

All valid results are included in the statistical analyses.  
Revisions of SGS-IPS methods when used are current at the time of testing.  
Sample(s) tested and conditioned in TAPPI standard conditions when conditioning is required by method, unless requested otherwise by customer, or otherwise specified.  
Samples were not preconditioned.  
ASTM E 96/E 96M - 16 Standard Test Methods for Water Vapor Transmission of Materials  
Aluminum cups with O-ring seals were used.  
The exposed surface area is 0.034 ft<sup>2</sup> (0.00316 m<sup>2</sup>).  
Permeability has not been calculated.  
Corrections for buoyancy and resistance due to Still Air and specimen surface were not done.  
SGS-IPS always runs to an equilibrium slope and does not use a dummy cup as a proxy for equilibrium measurement.  
Caliper was not performed.  
Cups filled with 100ml of deionized water.  
Parafilm was used to seal the edges during testing.  
There was trouble removing the labels on the specimens for testing, there was some residual adhesive left on the specimens during testing.

Analyzed by: MAG

Quality review by: JVP

Date(s) of testing: December 31, 2021

Note: See the method(s) cited above for available estimates of measurement uncertainty. Unless otherwise noted, sampling was performed by customer.

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**Appendix A**

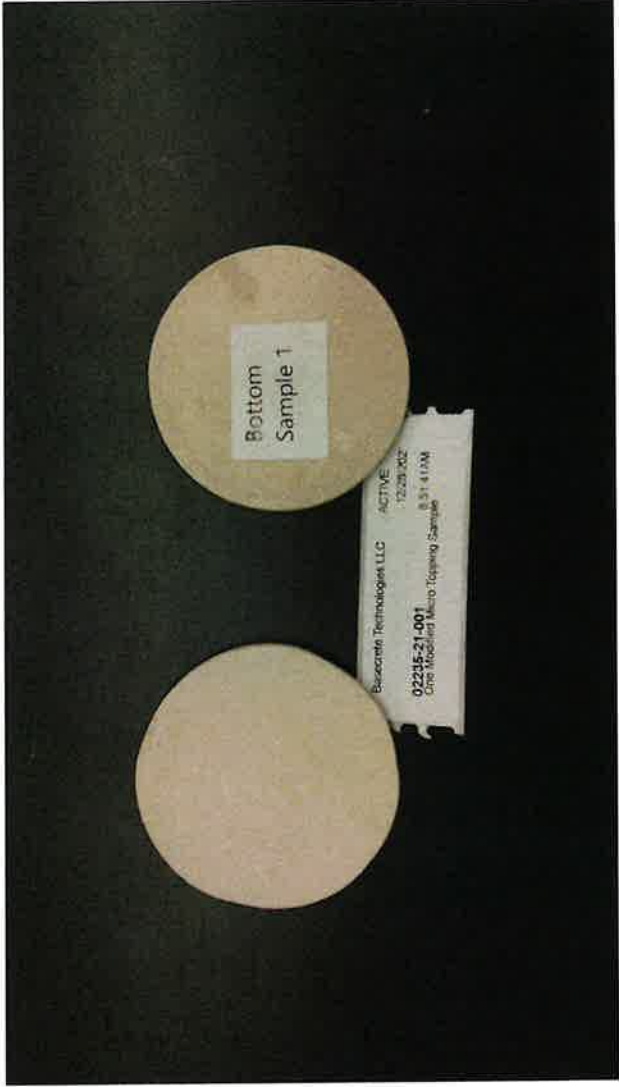


Figure 1. Login Sample Photos One Modified Micro Topping Sample

WVTR at 23.1 °C and 49.3 %RH

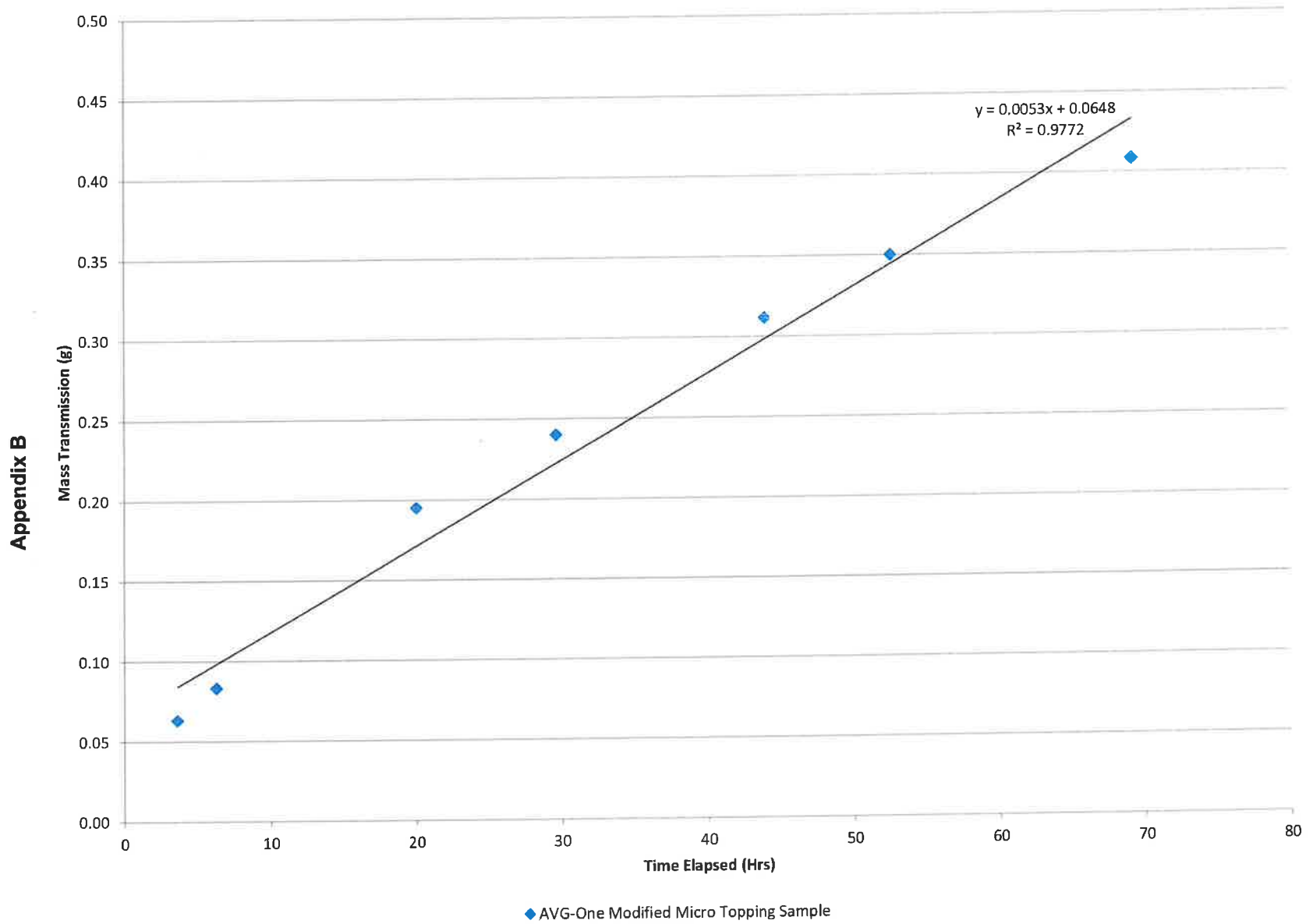


Chart 1