

Composeal Gold ASTM D 4551 Results

U.S. ANALYTICAL LABORATORIES

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ANALYTICAL REPORT

S.N. : 6124
DATE IN : 8/05/92
DATE OUT : 8/25/92

CLIENT: ComPOSITE Corp.

MATERIAL: 'Composeal Gold' Crack Isolation Waterproof Membrane, 40 Mil.

SUBMITTED FOR: ASTM D 4551 - 86b Test

1.0 Reference Procedure

- 1.1 Engineering Standard
Methods #
- 1.2 EPA #
- 1.3 ASTM # D4551 - 86b

2.0 Test Results

The following tests were conducted as specified in ASTM D 4551-86b (Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic flexible Concealed Water- Containment Membrane).

PROPERTY	UNIT	STANDARD	READING
Thickness	inch	0.40, min	0.042
Tensile Strength	1bf/in. of width	80, min	86
Tensile Stress at 100% Elongation	1bf/in. of width	40, min	42
Elongation at break	%	300, min	330
Tear Resistance	1bf/in. of width	250, min	257
Pinholes	number	none	none
Micro-organism Resistance	Specimen, pass/fail	12 of 12 pass	12 of 12 pass
Puncture Resistance	Specimen, pass/fail	6 of 6 pass	6 of 6 pass
Indentation Resistance	Specimen, pass/fail	3 of 3 pass	3 of 3 pass
Folding Resistance	Specimen, pass/fail	3 of 3 pass	3 of 3 pass
Chemical Resistance			
Distilled H ₂ O	% Weight Change	+1%, max.	+0.030%

Soapy H ₂ O	% Weight Change	+2%, max.	+0.097%
Alkali	Specimen, pass/fail	3 of 3 pass	3 of 3 pass
Hydrostatic Pressure Test	Specimen, pass/fail	3 of 3 pass	3 of 3 pass
Shrinkage	% Original	5 %, max.	1.15 %
Volatile loss at 158°F	% Loss	1.5 max.	0.08

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As shown in our Test Report, it has passed ASTM D 4551 - 86b Test.

Report on sample by client applies only to sample. Report on sample by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Samples retained for thirty days maximum after date report unless specifically requested otherwise by client. The liability of the U.S. Analytical Laboratories with respect to the services charged for herein, shall in no exceed the amount of the invoice.

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Test Backgrounds :

Plastic Flexible Concealed Water-Containment Membrane Sampling:

25 Membranes were randomly Selected, Geometric Mean : 20

(ASTM D 1898 : Practice for Sampling of Plastics)

* No Production Lot Number was issued with this material.

Test Procedures:

Tests were performed in accordance with ASTM D 4551 - 86b, Sec. 11

Micro-organism Resistance Test : Basic Medium - Mixed Culture (Fungi) (ASTM D 874 - 84)

Test No Color Change on Surface Characteristics by Visual

Results : Observation.

 Physical Observation : No weight Change.

Hydrostatic Pressure Test:

Specimens : 3 Specimens of flat material 3 by 3 inch selected in accordance with ASTM D 4551, 12.1

Inner Dia. of the Pressure Tube : 2 inch

Outer Dia. of the Pressure Tube : 3 inch

Observations Made observations at 10-min. intervals for the first
: hour, and at hourly intervals for the succeeding 7
 hours, after which left the specimen under
 hydrostatic pressure for 40 hours and examined
 again. : No evidence of wetness on top of the
 material or the formation of a droplet found.

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