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Evaluation of Unknown Blue Film

To: Mike Gabor

For: Customer

From: Cortec Corporation Laboratories

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cc: Boris Miksic

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Project #: 14-263-1125.bis

Results reported by:

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Date:

December 2, 2014



Purpose: To compare the corrosion protection properties of the submitted blue

film against Cortec's VpCI-126 film. The manufacturer of the film is

unknown; the color concentrate is from Ampacet.

Samples Received: Blue film bag, 2mils, received on 11-24-14 in good condition

Method: VIA Test, CC-027

Razor Blade Test, CC-004* FTIR analysis, CC-006

*Cortec Laboratory is not accredited for the test marked

Materials: VIA test kit

Razor blade test kit Paragon 1000 FTIR VpCI-126 film, 2 mils

Plain polyethylene film, 2mils (control)

Procedure: The tests were conducted according to standard procedures for each test.

Results:

Razor Blade Test- Carbon Steel Panels

Film Sample	Panel #1	Panel #2	Panel #3	Pass / Fail
Submitted blue film	Fail	Fail	Pass	Fail
VpCI-126 film	Pass	Pass	Pass	Pass
Control	Fail	-	-	-

Razor Blade Test- Copper Panels

Film Sample	Panel #1	Panel #2	Panel #3	Pass / Fail
Submitted blue film	Fail	Fail	Fail	Fail
VpCI-126 film	Pass	Pass	Pass	Pass
Control	Fail	-	-	-

VIA Test

Film Sample	Plug #1	Plug #2	Plug #3	End Result
Submitted blue film	Grade 0	Grade 0	Grade 0	Fail
VpCI-126 film	Grade 3	Grade 3	Grade 2	Pass
Control	Grade 0	-	-	-

Interpretations: The submitted blue film does not provide corrosion protection in

the vapor phase or in the contact phase. The FTIR shows that this film contains inhibitor, but the amount is not sufficient to pass the

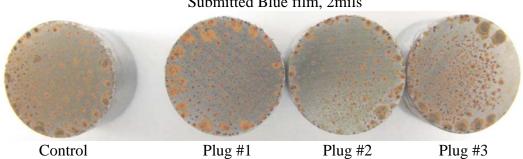
VIA or razor blade test.

VpCI-126 film provides excellent contact and vapor phase

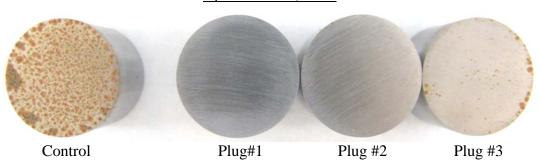
corrosion protection.

Photos:

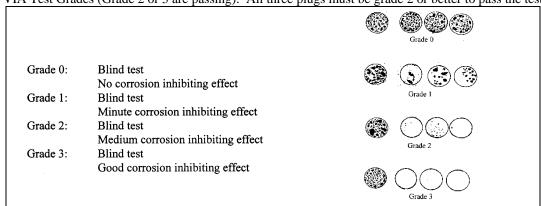
VIA Test
Submitted Blue film, 2mils

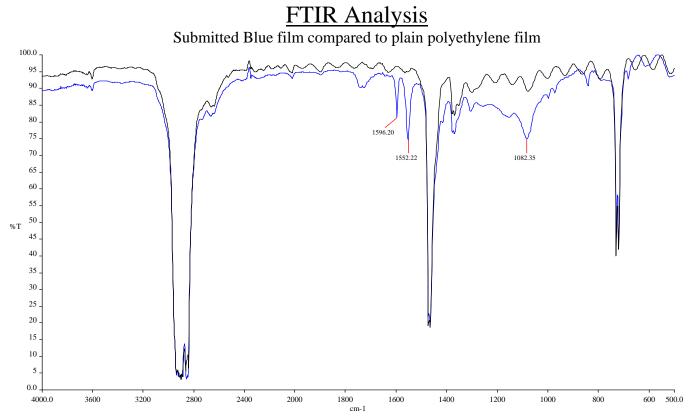


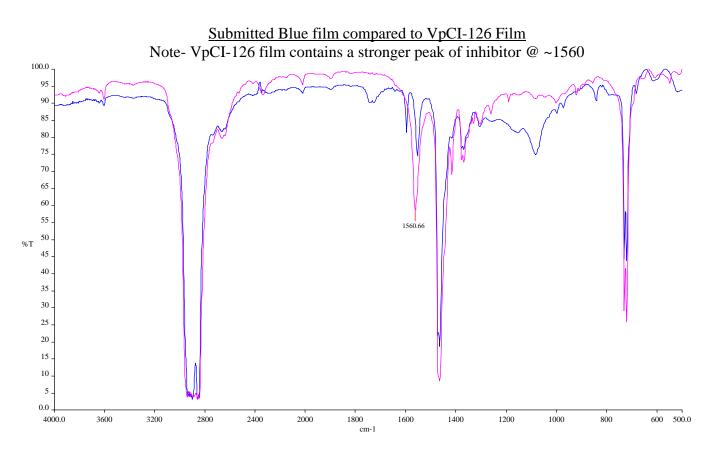
VpCI-126 film, 2mils



VIA Test Grades (Grade 2 or 3 are passing). All three plugs must be grade 2 or better to pass the test







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