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Evaluation of a Blue Film Bag

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Background:

A large blue film bag manufactured by Signode was submitted for VIA and razor blade testing.

Samples Received:

1. Blue film bag, 3mils

Method:

- NACE Standard VIA Test, TM 0208-2018
- Razor Blade Test, CC-004*

*The test marked is not covered under Cortec Laboratories, Inc. ISO 17025 Scope of Accreditation

Materials:

1. VIA test kit (testing jars with lid apparatus, steel plugs, 400grit sandpaper)
2. Buehler Plug Grinder, Ecomet V Polisher (manual turn table plug grinder)
3. Steel panels, SAE 1008/1010 (Q-Panel, S-35 DG, 3"x5"x0.032")
4. Copper panels
5. Glycerol (lot #R28H033)
6. Methanol, ACS grade
7. Scale I (0.0g)
8. Lint-free cotton wipes
9. DI water
10. Plain Polyethylene film
11. Calibrated thermometer (964536, QA-CHQ-185)

Procedure:

The VIA and razor blade tests were conducted according to standard procedure.

Results:**Razor Blade Test- Steel Panels**

Sample	Panel #1	Panel #2	Panel #3	End Result
Blue film bag	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

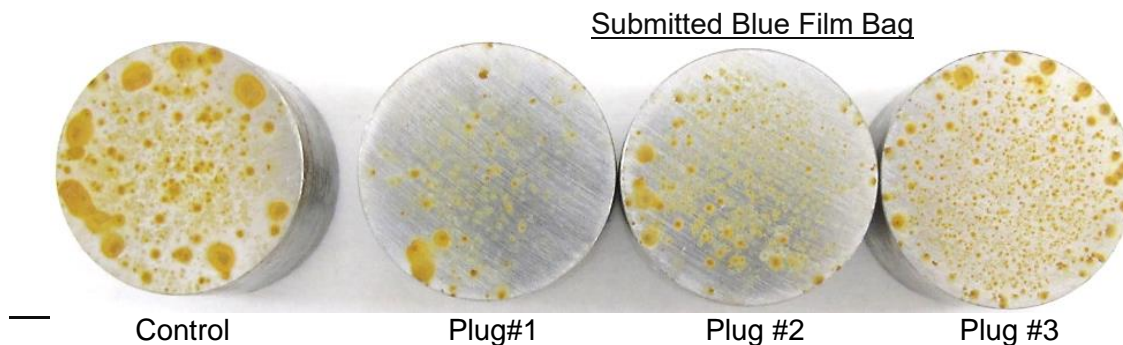
Razor Blade Test- Copper Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
Blue film bag	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

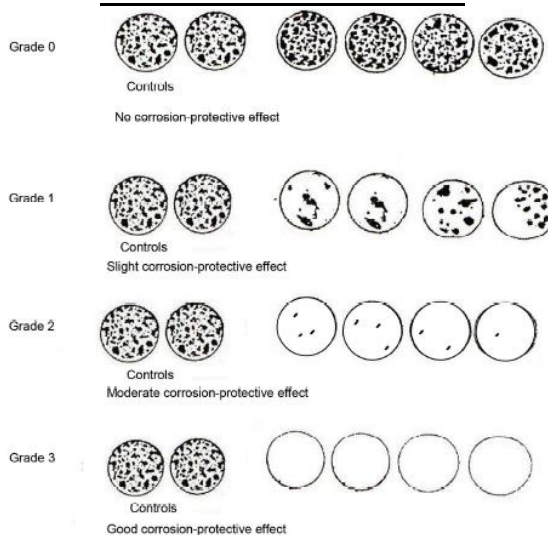
NACE VIA Test

Sample	Plug #1	Plug #2	Plug #3	End Result
Blue film bag	Grade 1	Grade 0	Grade 0	Slight to no corrosion protective effect
Control	Grade 0	-	-	No corrosion protective effect

Photo of VIA plugs after testing:



VIA Test Grades



Interpretations:

The submitted blue film bag does not provide sufficient contact corrosion protection to pass the razor blade test for steel and copper. For vapor phase corrosion protection, this film provides slight protection at best according to the results of the NACE VIA test.