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Evaluation of Film Submitted by Customer

Purpose: Evaluate anticorrosion properties of a blue opaque film manufactured in

Italy by Propack and submitted by customer. The film is 4 mil thick and has printing "Propa Steel, A SPECIAL PLASTIC FOIL TO WRAP STEEL

SUCCESFULLY, www.propagroup.com" on one side.

Materials:

- 1) Submitted film
- 2) Carbon Steel Panels
- 3) Methanol-lab grade
- 4) Razor Blade test kit
- 5) VIA test kit
- 6) Perkin Elmer FTIR 1000 Spectrometer

Method:

- 1) Razor Blade test, CC-004
- 2) VIA test
- 3) FTIR Spectroscopy

Procedure: The above tests were performed according to standard procedures for

each.

Results:

FTIR

FTIR scanning reveals the film most likely contains salts of carboxylic acid.



Razor Blade Test Performed on Carbon Steel Panels

Sample	Panel 1	Panel 2	Panel 3
Submitted film	Fail	Fail	Fail
Control	Fail	-	-



VIA Test

Sample	Plug #1	Plug #2	Plug #3
Submitted film	Grade 0	Grade 0	Grade 2
Control	Grade 0	1	-

Note: VIA Grading system is attached below



Conclusion: The submitted film failed both Razor Blade Test and VIA Test, which means that it doesn't protect steel either in vapor or in contact phases.

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VIA Test Grades (Grade 2 or 3 are passing)

Grade 0:

Blind test
No corrosion inhibiting effect

Grade 1:

Blind test
Minute corrosion inhibiting effect

Grade 2:

Blind test
Medium corrosion inhibiting effect

Grade 3:

Blind test
Good corrosion inhibiting effect

Grade 3:

Grade 2

