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Evaluation of Polyair's Bubble Film

Purpose: To test VCI properties of the submitted sample of bubble film that was manufactured by Polyair.

Materials: Submitted sample of bubble film, manufactured by Polyair
 Cor-Pak VpCI-bubbles
 Razor Blade Test Kit
 VIA Test Kit
 Perkin Elmer FT-IR 1000 Spectrometer

Method: Razor Blade Test
 VIA Test
 FT-IR Analysis

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

Results: Razor Blade Test (carbon steel)

Material	Panel #1	Panel #2	Panel #3
Submitted Polyair bubble film	Fail	Fail	Fail
Cor-Pak VpCI-bubble film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Panel #1	Panel #2	Panel #3
Submitted Polyair bubble film	Grade 1	Grade 1	Grade 1
Cor-Pak VpCI-bubble film	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

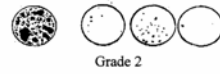
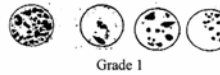
Conclusion: The submitted sample of Polyair bubble film failed the razor blade and VIA test with poor results. Based on FT-IR results the Polyair bubble film doesn't contain any corrosion inhibitors (or only an insignificant amount).



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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



FT-IR Analysis

Polyair Bubble Film

