

Evaluation of India Produced Safepack Film

Purpose: To evaluate the Safepack film that was produced in India.

Materials: Razor Blade Test Kit
 VIA Test Kit
 EM Quant Nitrite/Nitrate test (Lot OC405590, Exp 9/2007)
 Perkin Elmer Paragon 1000 FT-IR Spectrometer
 Blue film (3.5mils) produced by Safepack from India

Method: Razor Blade Test
 VIA Test
 FT-IR
 Nitrite Test

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

Results: VIA Test

Material	Plug #1	Plug #2	Plug #3
Blue film produced by Safepack India (3.5mils)	Grade 1	Grade 1	Grade 1
*VpCI-126 film (3.5mils)	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

Razor Blade Test (carbon steel)

Material	Panel #1	Panel #2	Panel #3
Blue film produced by Safepack India (3.5mils)	Pass	Pass	Pass
*VpCI-126 film (3.5mils)	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

Nitrite Test: The Safepack film contains nitrite on both sides of the film.

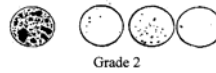
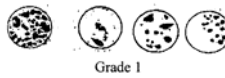
Conclusion: The blue Safepack film from India based on the FT-IR results doesn't contain sufficient amount of corrosion inhibitors and failed to provide any protection in VIA test.



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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



FTIR Analysis on Blue Safepack Film

