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## *Evaluation of VCI Properties*

**Purpose:** To test the VCI properties of the submitted materials.

**Materials:** Green Film, manufactured by NTI  
 White Film, manufactured by Global Pro  
 White Film/Paper manufactured by Global Pro  
 Razor Blade Test Kit  
 VIA Test Kit  
 Perkin Elmer FT-IR 1000 Spectrometer

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

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

**Results:** Razor Blade Test (carbon steel)

Submitted material	Panel #1	Panel #2	Panel #3
Green Film	Fail	Fail	Fail
White Film	Pass	Pass	Fail
White Film/Paper	Fail	Fail	Fail
Control	Fail	Fail	Fail

Razor Blade Test (copper)

Submitted material	Panel #1	Panel #2	Panel #3
Green Film	Fail	Fail	Fail
White Film	Pass	Pass	Fail
White Film/Paper	Fail	Fail	Fail
Control	Fail	Fail	Fail

VIA Test

Submitted material	Plug #1	Plug #2	Plug #3
Green Film	Grade 0	Grade 1	Grade 1
White Film	Grade 1	Grade 1	Grade 1
White Film/Paper	Grade 1	Grade 1	Grade 1
Control	Fail	Fail	Fail






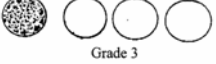
Nitrite strips

Submitted material	Nitrite?
Green Film	none
White Film	yes
White Film/Paper	none

- Conclusion:**
1. Green Film- from NTI failed all the tests.
  - \*2. White Film- failed the VIA and barely passed the razor blade tests.
  - \*3. White Film/Paper- failed all the tests.
- \* #2 and #3 are manufactured by Global Pro.

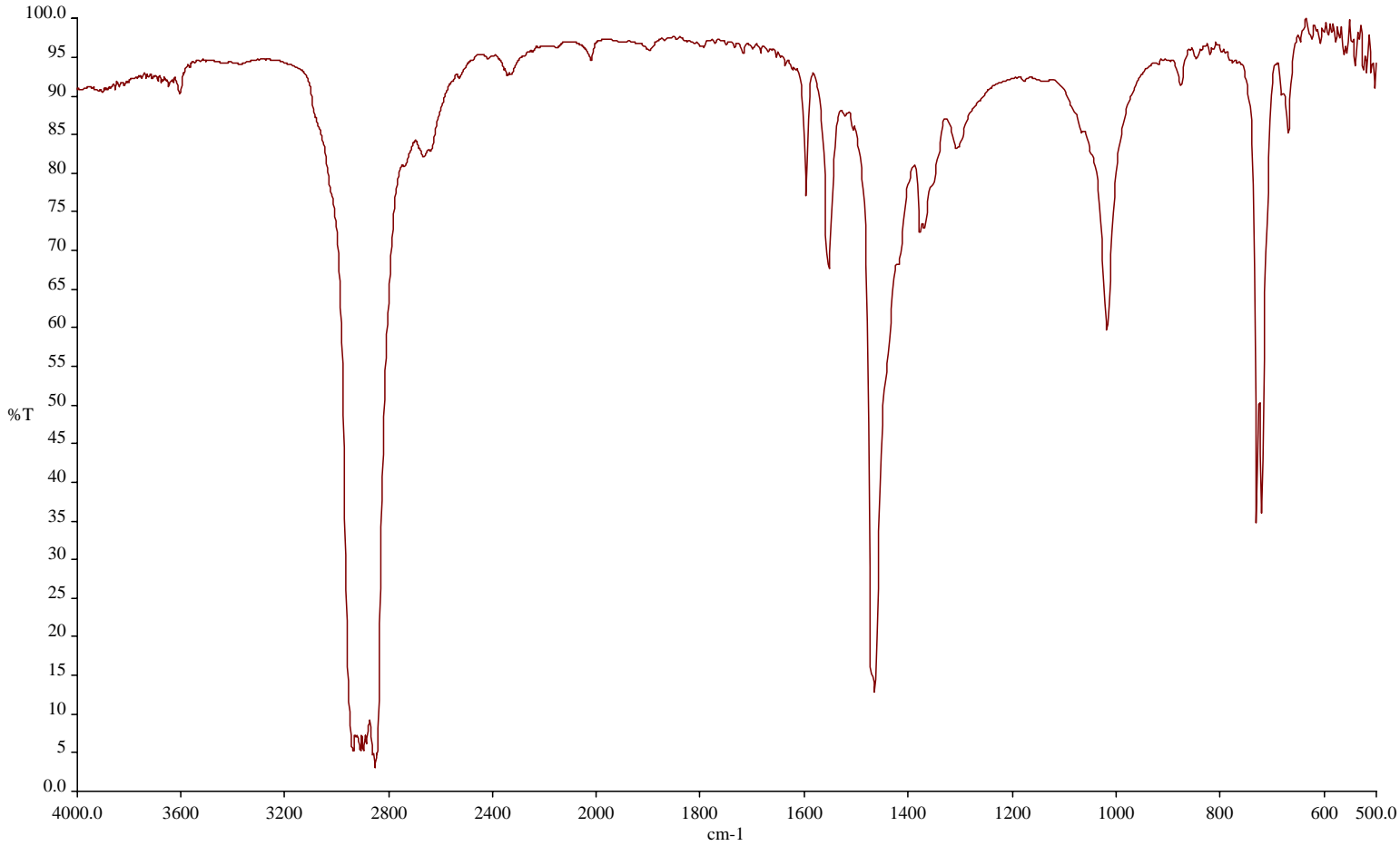
**Project #:** 08-231-1125(bis)

VIA Test Grades (Grade 2 or 3 are passing)

Grade 0:	Blind test No corrosion inhibiting effect	 Grade 0
Grade 1:	Blind test Minute corrosion inhibiting effect	 Grade 1
Grade 2:	Blind test Medium corrosion inhibiting effect	 Grade 2
Grade 3:	Blind test Good corrosion inhibiting effect	 Grade 3

# FTIR Analysis

## Green Film



# FTIR Analysis

## White Film

