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## *Evaluation of Clear Film Manufactured by NTI*

**Background:** Mario Ramirez/IPS submitted clear packaging film. The film is being offered as a VCI film. An evaluation of the film is sought.

**Purpose:** Evaluate the corrosion inhibition offered by clear film manufactured by NTI.

**Method:** Razor Blade Test  
VIA Test  
SO<sub>2</sub> Test  
FT-IR

**Materials:** Razor Blade Test Kit  
VIA Test Kit  
SO<sub>2</sub> Test Kit  
Clear film, manufactured by NTI

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

**Results:**

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Clear film manufactured by NTI	Fail	Fail	Fail
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Clear film manufactured by NTI	Grade 0	Grade 0	Grade 0
Control	Fail	Fail	Fail

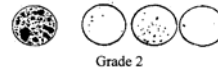
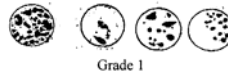
SO<sub>2</sub> Test

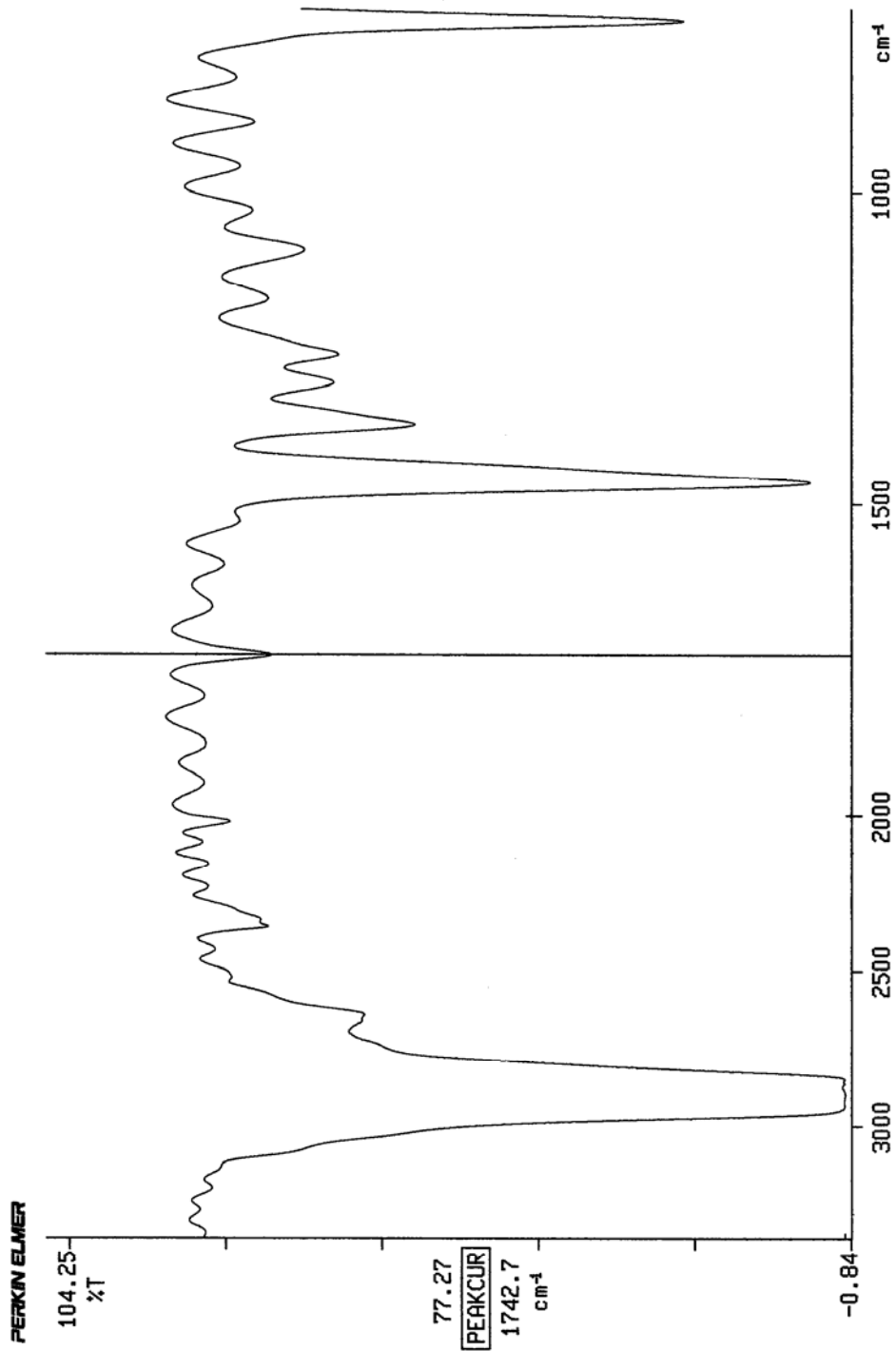
Material	Panel #1	Panel #2	Panel #3
Clear film manufactured by NTI	Grade 1	Grade 1	Grade 1
Control	Fail	Fail	Fail

**Conclusion:** Based on FT-IR results the Clear film, manufactured by NTI, doesn't contain sufficient amount of inhibitors, if any. Clear film does not offer contact, barrier or vapor phase corrosion inhibition.



- 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





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X: 8 scans, 16.0cm<sup>-1</sup>  
03-145-1125, 2 mil