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Evaluating blue colored film manufactured by VCI Brasil

Background: Two films were submitted to Cortec Corporation. The films are blue colored and constructed of LDPE plastic. Both films are labeled as VCI Brasil with one of the films having the extra label Rio Negro.

Purpose: Evaluate the corrosion inhibition performance of submitted films

Method: Razor Blade Test
VIA Test
SO₂ Test

Materials: Razor Blade Test Kit
VIA Test Kit
SO₂ Test Kit
VCI Brasil labeled film (3 mil)
VCI Brasil and Rio Negro labeled film (4 mil)

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Film labeled as VCI Brasil	Fail	Fail	Fail
Film labeled as VCI Brasil and Rio Negro	Fail	Fail	Pass
Cortec VpCI-126 film*	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

VIA Test

Material	Plug #1	Plug #2	Plug #3
Film labeled as VCI Brasil	Grade 2	Grade 2	Grade 1
Film labeled as VCI Brasil and Rio Negro	Grade 2	Grade 1	Grade 2
Cortec VpCI-126 film*	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

SO₂ Test

Material	Panel #1	Panel #2	Panel #3
Film labeled as VCI Brasil	Grade 1	Grade 1	Grade 2
Film labeled as VCI Brasil and Rio Negro	Grade 2	Grade 1	Grade 1
Cortec VpCI-126 film*	Grade 4	Grade 4	Grade 4
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

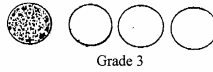
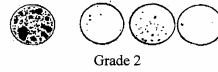
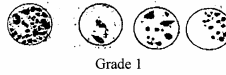
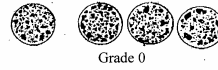
Conclusion: Based on the results above, VCI Brasil submitted films fail to provide sufficient contact, barrier and vapor phase corrosion inhibition.

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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



SO₂ Grades (Grade 3 and 4 are passing):

- Grade 0- Extensive corrosion covering 25% or more of panel surface
- Grade 1- Moderate corrosion covering 10-25% of panel surface
- Grade 2- Slight corrosion covering 5-10% of panel surface
- Grade 3- Very slight corrosion covering 0-5% of panel surface
- Grade 4- No visible corrosion on panel surface

