

Evaluating BRANOfol film

Background: Sanders Tool/ Caterpillar wanted the BRANOfol film evaluated for corrosion inhibiting properties.

Purpose: Evaluate submitted BRANOfol film that was manufactured in Germany.

Materials: Carbon Steel Panels
 Copper Panels
 Submitted BRANOfol film, 3 mil
 Uncoated Polyethylene film, 3 mil (control film)
 Perkin Elmer FT-IR 1000 Spectrometer
 Razor Blade test kit
 VIA test kit
 FT-IR test kit

Method: Razor Blade test
 VIA test
 FT-IR test

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

Results: Razor Blade Test Performed on Carbon Steel Panels

Film	Panel 1	Panel 2	Panel 3
BRANOfol	Fail	Fail	Fail
Control	Fail	Fail	Fail

Razor Blade Test Performed on Copper Panels

Film	Panel 1	Panel 2	Panel 3
BRANOfol	Fail	Fail	Fail
Control	Fail	Fail	Fail



VIA Test

Film	Plug #1	Plug #2	Plug #3
BRANOfol	0	1	2
Control	0	0	0

FT-IR results are attached at the end of the report.

Conclusion:

The tests determined that BRANOfol failed the razor blade test and does not provide contact corrosion protection for copper or carbon steel. The BRANOfol film didn't pass the VIA test as well. The FT-IR results show that the film contains some amount of corrosion inhibitors, probably sodium benzoate.

Project #: 07-318-1125

VIA Test Grades (Grade 2 or 3 are passing)



