

# American Research and Testing Inc.

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CLIENT: Tucker Industries  
3555 N. Prospect St.  
Colorado Springs CO 80907

NUMBER  
95206-4  
December 26, 1995

SUBJECT: Coated Fabrics

## REFERENCE:

Tests and charges were authorized by Mr. Vince Tucker on 12/18/95.

## SAMPLE DESCRIPTION:

The Client submitted and identified two coated fabrics:

- 1) VaporGuard: white rubber coating on light green woven fabric
- 2) Neoprene (BIX): black rubber on light green non-woven fabric

## REQUEST:

Determine breaking strength before and after high temperature exposure.


## METHOD:

Breaking strength specimens were suspended in an oven at 400°F for 24 hours. Breaking strength for the woven fabric was determined before and after oven aging per FTMS 191 5102. Breaking strength for the non-woven fabric was determined before and after oven aging per ASTM D-412.

## RESULTS:

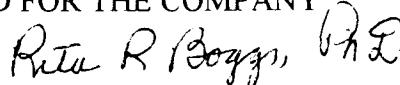
	VaporGuard	Neoprene (BIX)
Breaking Strength (lbs/in)		
Before Oven Aging	158.8	50.2
After Oven Aging (24 hrs @ 400 °F)	152.1	43.8
Percent Change	-4.4%	-12.7%

Observations: Twenty-four hours oven aging at 400 °F caused the black rubber on the Neoprene (BIX) sample to discolor and embrittle.

  
B. Belmont  
Senior Chemist

SIGNED FOR THE COMPANY

by

  
Rita R. Boggs, Ph.D.  
President