

# TOUCHSTONE

Systems & Services, Inc.  
TEST REPORT

**PREPARED FOR:**  
Crandall Office Furniture  
608 Callaghan street  
Greenville, MI 4883

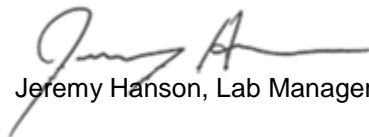
Test No: T12315  
P.O. NO.:  
Start Date: 8/8/2018  
End Date: 8/20/2018  
Report Date: 8/20/2018

**Test Objective:** **Five (5) sets of upholstery**

Determine the amount of color transferred from the surface of colored textile materials to other surfaces by rubbing per AATCC TM 8-2007

Test Description	Disposition
ATCC TM 8: Colorfastness to Crocking: Crockmeter Method	Met Requirement
AATCC TM 16.3 Option 3: Colorfastness to Light	Met Requirement

Testing Engineer:  
Johnathan Smith



Jeremy Hanson, Lab Manager

*Testing Performed by*  
**TouchStone Systems & Services, Inc.**  
1817 Porter St SW  
Wyoming MI 49519

The test specimen identification is as provided by the client and TouchStone Systems & Services accepts no responsibility for any inaccuracies therein. The results apply specifically to the specimen tested, in the manner tested, and not to the entire production of these or similar materials, nor to the performance when used in combination with other materials.

# Colorfastness to Crocking

## TEST SPECIFICATION:

Colorfastness to Crocking: Crockmeter Method (AATCC TM 8) – This test method is designed to determine the amount of color transferred from the surface of colored textile materials to other surfaces by rubbing.

## DESCRIPTION OF TEST SPECIMEN:

5 upholstery samples

## TEST EQUIPMENT USED:

AATCC Crock meter -NCR  
Crock cloth  
DI water  
Scale #10367  
Next Cal: 2/2019  
Light Booth  
Next Cal: 500 hours

## TEST PROCEDURE:

CONDITIONING: Samples are conditioned at 21°C and 65% RH for 4 hours

TESTING: Perform dry and wet testing, 10 complete turns, per AATCC TM 8-2007

## ACCEPTANCE CRITERIA:

Grade 4 min. dry & Grade 3 min. wet

## TECHNICIAN NOTES:

Date	Init.	Comments
8/8/2018	JS	After conditioning, performed 10 complete turns at 1 turn per second on 50mm x 130mm samples on crockmeter, performed dry and wet crocking for each sample type, on separate samples per AATCC TM 8-2007

## OBSERVATIONS:

Sample	AATCC grade dry	AATCC grade wet
1	5	4-5
2	5	4-5
5	5	5
12	5	5
13	4-5	5

## COMPLIANCE SUMMARY:

Requirement	Result	Disposition
Grade 4 min. dry Grade 3 min. wet	Grade 4-5 or higher on all samples	Met Requirement

**PHOTOGRAPHS:**



**Figure 1: Crocking setup**



**Figure 2: Dry crocking samples post test**



**Figure 3: Wet crocking samples post test**

# Colorfastness to Light

## TEST SPECIFICATION:

AATCC TM 16.3 Option 3 – This method determines colorfastness to light of textile materials.

## DESCRIPTION OF TEST SPECIMEN:

5 upholstery samples

## PROCEDURE:

40 hours of option 3:  
Xenon  
continuous light  
63°C black panel temperature  
43°C chamber air temperature  
30% RH  
1.10W/m<sup>2</sup>/nm at 420 nm

with 4 hour post conditioning at 21°C and 65% RH.

## ACCEPTANCE CRITERIA:

Grade 4 min. at 40 hours

## TEST EQUIPMENT USED:

Xenon Test Chamber by Q-Sun Model Xe-3-HS #10399  
Next Cal: 3/13/2019

## TECHNICIAN NOTES:

Date	Initial	Comments
8/17/2018	JS	At 5pm, samples in chamber and profile started per AATCC 16.3 option 3. Chamber will go to ambient upon profile completion at 40 hours.
8/19/2018	JS	At 9:00 am, profile complete.
8/20/2018	JS	Samples removed from chamber and inspected. Results on table below

## OBSERVATIONS:

Sample	AATCC grade	Observations
1	5	-
2	5	-
5	5	-
12	5	-
13	5	-

**COMPLIANCE SUMMARY:**

<b>Requirement</b>	<b>Result</b>	<b>Disposition</b>
Grade 4 min. at 40 hours	Grade 5 all samples	Met Requirement

**PHOTOGRAPHS:**



**Figure 4: Samples post light exposure**