

Flammability of Clothing Textiles Final Report

Test Article: Disposable medical mask
 Study Number: 1283080-S01
 Study Received Date: 31 Mar 2020
 Testing Facility: Nelson Laboratories, LLC
 6280 S. Redwood Rd.
 Salt Lake City, UT 84123 U.S.A.
 Test Procedure(s): Standard Test Protocol (STP) Number: STP0073 Rev 06
 Deviation(s): None

Summary: This procedure was performed to evaluate the flammability of plain surface clothing textiles by measuring the ease of ignition and the speed of flame spread. The parameter of time is used to separate materials into different classes, thereby assisting in a judgment of fabric suitability for clothing and protective clothing material. The test procedure was performed in accordance with the test method outlined in 16 CFR Part 1610 (a) *Step 1 - testing in the original state. Step 2 - Refurbishing and testing after refurbishing*, was not performed. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Article Side Tested: Outside Surface
 Orientation: Machine

Test Criteria for Specimen Classification (See 16 CFR Part 1610.7):

| Class | Plain Surface Textile Fabric |
|-------|---|
| 1 | Burn time ≥ 3.5 seconds |
| 2 | Not applicable to plain surface textile fabrics |
| 3 | Burn time < 3.5 seconds |

The 16 CFR Part 1610 standard specifies that 10 replicates are to be tested if, during preliminary testing, only 1 test article exhibits flame spread and it is less than 3.5 seconds or the test articles exhibit an average flame spread less than 3.5 seconds. Five replicates are to be tested if no flame spread is observed upon preliminary testing, if only 1 test article exhibits flame spread and it is equal to or greater than 3.5 seconds, or if the average flame spread is equal to or greater than 3.5 seconds. In accordance with the standard, 5 replicates were tested for this study.



Curtis Gerow
 Study Director

Curtis Gerow, B.S.

10 Apr 2020
 Study Completion Date



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Results:

| Replicate Number | Time of Flame Spread |
|------------------|----------------------|
| 1 | IBE |
| 2 | IBE |
| 3 | IBE |
| 4 | IBE |
| 5 | IBE |

IBE = Test Article ignited, but extinguished