

TEST REPORT

Nº **2018CO1311**

DATE OF RECEPTION

DATE TEST

APPLICANT
WOVEN FABRIC COMPANY
19, HINDUSTHAN KOHINOOR
IND COMPLEX, LBS MARG
IN-400083 MUMBAI
MAHARASHTRA

Att. MR. SANJAY AGRAWAL

DESCRIPTION AND IDENTIFICATION OF SAMPLES

SAMPLES REFERENCED:
-“97675 French Terrain”.

TESTS CARRIED OUT

- DETERMINATION OF BURNING BEHAVIOUR BY OXYGEN INDEX

ENAC is a signatory to the Multilateral Agreement (MLA), (MRA Mutual Recognition Agreement) of the European Cooperation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC), in testing.

ATTACHED

SAMPLE(S)

SEALED

PAGE

OF



RESULTS

Sample description

Blue navy fabric with an estimated weight of 150 gsm. Composition 93% Meta Aramid, 5% Para Aramid, 2% Anti Static Fabric. Reference: "97675 French Terrain", according to client.

Scope

This part of the Standard establishes test methods to assess the minimal oxygen concentration, mixed with nitrogen that will hold up the ignition of vertically oriented small specimens in specific test conditions. This test result only refers to the specimens behavior in this test condition. This test result shall not be used to deduce material fire risks in other shapes or in other fire scenarios.

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RESULTS

DETERMINATION OF BURNING BEHAVIOUR BY OXYGEN INDEX

Standard

ASTM D 2863:17a.

Apparatus

Critical oxygen index test apparatus

Sample uncertainty

± 2.393 mm; ± 0.561 s; ± 0.156 O₂

Standard deviation

Sample conditioning

119.50 h to (23 \pm 2)^oC and (50 \pm 5)% H.R.

Test method used

B: Propagation ignition

Specimens shape

V

Date test

07/05/2018

Dimensions

(140x52x \leq 10) mm

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RESULTS

Concentration increment used

0.2% (V/V)

Specimens ignition criteria

Ignition longer than 180 seconds
Charred length longer than 80 mm.

X = Ignition O = No Ignition

Test conditions

22.3°C – 43.0% H.R.

Reference

97675 French Terrain

Section 1: Determination of the oxygen concentration by a couple of results "X" and "O" being < 1% (V/V) of the O₂ concentration interval

Concentration O₂ % (V/V)	23 Wrp	26 Wrp	27 Wrp	28 Wrp	27 Wft	28 Wft	---
Ignition time (s)	5	13	31	72	19	74	---
Burned length (mm)	<80	<80	<80	>80	<80	>80	---
Result ("X" - "O")	O	O	O	X	O	X	---

"O" result concentration for the couple = 27% (V/V)

Section 2: Oxygen index determination

Concentration O₂ % (V/V)	27.0 Wft	27.2 Wft	27.0 Wft	27.2 Wft	27.0 Wft	26.8 Wft	---	---	---
Ignition time (s)	9	8	21	77	9	83	---	---	---
Burned length (mm)	<80	<80	<80	>80	<80	>80	---	---	---
Result ("X" - "O")	O	O	O	X	O	X	---	---	---

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RESULTS

SAMPLE OXYGEN INDEX	27.0 % (V/V)
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Ignition characteristics

During the test a moderate emission of white smoke. Material carbonization. Normal ignition.

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Begoña Pico
Head of Public Tenders Division

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