

IFR Molton CS

Perfect for: Stage • Masking • Decorative/Scenic • Film & TV • Acoustics

J&C Joel TM
Inspiration in every performance

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Composition and Care

300 cm 3

Fire Certificates

BS5867 Part 2 Type B 4

EN13501-1 8

B1 13

TECHNICAL



NDFR

Non Durably Flame Retardant

chemically treated with a water solution and if wetted in any way should be retreated



DFR

Durably Flame Retardant

chemically treated to withstand a number of cleanings



IFR

Inherently Flame Retardant

woven from fibres with a high flame retardancy



FR

Flame Retardant

chemically treated to an individual specification



NOT FR

Not Flame Retardant no flame retardant treatment



Confirmation that the fabric meets one or more flame retardant standards

BS5867 BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

BS5852 BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

BS4790 BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

EN13773: 2003 Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

TL 1080-0002/8 German Military Specification for horizontally tested materials

EN14041 Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

BS7905-1:2001 Lifting equipment for performance, broadcast and similar applications.

ATTRIBUTES



Approx roll length of material in linear metres (m) & feet (ft)



Approx width of material in centimetres (cm) & inches (")



Approx weight in grams per metre squared (g/m²)



Approx thickness in (mm)

M1, M2, M4 Conforms to French Fire Regulations

B1, B2 Conforms to German Fire Regulations DIN 4102

IMO Conforms to International Maritime Organisation regulations

Classe Uno Meets Italian Fire Regulations

BS EN13501-1 Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests

CFC EN ISO 9239-1 Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

NFPA 701 NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

EN9239-1 Reaction to fire tests – horizontal surface spread of flame on floor covering systems

DIN EN1021 Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

Fabric	Flame Retardancy	IFR
	Fire Certification	BS5867 Part 2 Type B, EN13501-1, B1
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Polyester
	Construction of Fabric	Dyed
Chemicals	Surface Treatments	N/A
	Brand Name of Flame Retardant Chemicals	N/A
	Chemical name of Flame Retardant Chemicals	N/A
	Process of Flame Retardant Chemicals	N/A
Care	Information	Inherently Flame Retardant to BS5867 Part 2 Type B, EN13501-1 and B1. This means that the man-made fibres are flame retardant for life and if wet, would not need to be re-flameproofed. Therefore, the cloth will withstand wet cleaning but we would advise and suggest professional dry cleaning only, using the correct chemical process. Notwithstanding the aforementioned, it would be our advice to only dry clean this material periodically. We would suggest that the curtain be soft-brushed on a regular basis and periodically cleaned using a vacuum and drapery attachment. This fabric is not pre-shrunk.
	Laundering Treatment	     Dry Clean Only Do Not Wash Do Not Bleach Do Not Iron Do Not Tumble Dry
Notes		



Fire Rating:
IFR



Approx Roll Length:
60m / 197ft



Width:
300cm / 118"



Weight:
320 g/m²



Fire Certification:
BS5867 Part 2
Type B, EN13501-1,
B1



Colour
Available
2



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: BS5867 Part 2 Type B

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Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@btg.co.uk
Website: www.bttg.co.uk

Date: 15 August 2017

Our Ref: 53651-5
Your Ref: -

Page: 1 of 4

Client: J. & C. Joel Limited
Corporation Mill
Corporation Street
Sowerby Bridge
Halifax
HX6 2QQ

Job Title: Surface Ignition Of Curtains & Drapes

Client's Order No: -

Date of Receipt: 16 June 2017
Date of Test Start: 29 June 2017

Description of Sample(s): One sample identified as follows was received for testing:
IFR Molton, stated to be IFR

Work Requested: We were asked to make the following test:
BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds



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Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: BS5867 Part 2 Type B

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Sample was identified as follows:

IFR Molton, stated to be IFR

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
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Page: 2 of 4

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds

Testing as received.

Three specimens from both length and width were tested in accordance with BS EN ISO 15025: Procedure A (surface ignition): 2002. The sample was tested at 20 °C and 60 % relative humidity (R.H.).

Each specimen was subjected to an applied flame using propane and a 15 second flame application time. The results obtained (shown in the table below) were assessed according to the requirements of BS 5867: Part 2: 2008 (2015).

Pre-treatment

If the fabric is a pass in the "as received" condition then the fabric is subjected a water soak procedure as specified in BS EN 1021: Annex D: 2006.

Testing after pre-treatment

Three specimens, after pre-treatment, from both length and width were tested following the procedure described above.

Test results relate only to the sample tested.

The results for all tests are given in the table(s) on the following page(s).

Reported by: 
J Coleman
Fire Technician

Countersigned By: 
P Doherty
Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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Fire Test Certificate - Specimen

Fabric: IFR Molton CS

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RESULTS

Sample Ref: IFR Molton, stated to be IFR

Wira House, West Park Ring Road,
Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 15 August 2017

Our Ref: 53651-5

Your Ref: -

Page: 3 of 4

BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds

Testing as Received

Specimen No.	Length			Width		
	1	2	3	4	5	6
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

Requirements

Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in 'as received': Pass

Testing after pre-treatment

Specimen No.	Length			Width		
	1	2	3	4	5	6
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

Requirements

Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in 'after pre-treatment': Pass



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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Fire Test Certificate - Specimen

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Type: BS5867 Part 2 Type B

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Conclusion

The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 (2015).

This material should be identified with the manufacturers name, trademark or other identifying mark, the statement 'Flammability complies with the requirements of BS 5867: Part 2: Type B and instructions of any special precautions to be taken concerning care (including cleansing) of the curtain, drape or window blind to be manufactured from the fabric, preferably using an appropriate care labelling symbol in accordance with BS EN 23758 and taking account of the pre-treatment using in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2015). If the fabric is unsuitable for cleansing, this shall be stated.

Uncertainty Budget

There is no uncertainty budget associated with BS 5867: Part 2: Type B as no measurements are determined, the pass/fail criteria is assessed visually.

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Leeds, LS16 6QL, UK.
Telephone: +44 (0)113 259 1999
Email: info@bttg.co.uk
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SPECIMEN



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United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: EN13501-1

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Prüfinstitut Hoch GmbH

Lerchenweg 1
D-97650 Fladungen
Tel.: 09778-7480-200
hoch.fladungen@t-online.de

www.brandverhalten.de



Prüfinstitut für das Brandverhalten von Bauprodukten,
Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle

KB-Hoch-260095

KLASSIFIZIERUNGSBERICHT

Klassifizierung des Brandverhaltens nach EN 13501-1 ¹⁾

CLASSIFICATION REPORT

Reaction to fire classification according to EN 13501-1 ¹⁾

Auftraggeber
Client

Herstellwerk
Production site

Gegenstand
Subject "CS Molton"

Beschreibung
Description Molton Gewebe in den Farben schwarz oder weiß.
Molton fabric in black or white.

Klassifizierung
Classification **B – s1,d0**

Berichtsdatum
Issue date 26.01.2026

Geltungsdauer
Validity 31.01.2031 ²⁾ (siehe Abschnitt 5.1 / confer to section 5.1)

Dieser Bericht umfasst 5 Seiten und darf nicht auszugsweise benutzt oder veröffentlicht werden. Für rechtliche Belange ist ausschließlich der deutsche Wortlaut maßgebend.
The report comprises 5 pages and must not be used or reproduced partially or in extracts. For legal interests, only the German wording is decisive.

¹⁾ EN 13501-1:2018

²⁾ Verlängerung auf Antrag / Prolongation on request

Mitglied der 
notified body: 1508

Durch die DAkkS nach DIN EN ISO/IEC 17025 akkreditiertes Prüflaboratorium.
Die Akkreditierung gilt für die in der Urkunde aufgeführten Prüfverfahren.



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

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Lerchenweg 1
D-97650 Fladungen

Seite 2 von 5 des Klassifizierungsberichts
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1. Einführung / Introduction

Dieser Klassifizierungsbericht zum Brandverhalten definiert die Klassifizierung, die dem Bauprodukt in Übereinstimmung mit den Verfahren nach EN 13501-1:2018 zugeordnet wird.

This classification report defines the classification assigned to the construction product in accordance with the procedures given in EN 13501-1:2018.

2. Beschreibung zum Bauprodukt / Description of the construction product

Das Produkt wird in den in Punkt 3.1 aufgeführten Prüfberichten, die der Klassifizierung zugrunde liegen, vollständig beschrieben. Dabei wurde das Produkt mit den folgenden Produktparametern getestet.

The product is fully described in the test reports in support of this classification listed in section 3.1. The product was tested adhering to the following product parameters.

"CS Molton, schwarz"	
Gesamtdicke Total thickness	= 0,79 mm
Flächengewicht Weight per unit area	= 342 g/m ²
Farbe Colour	Schwarz black
"CS Molton, weiß"	
Gesamtdicke Total thickness	= 0,76 mm
Flächengewicht Weight per unit area	= 334 g/m ²
Farbe Colour	weiß white

Das Produkt erfüllt nach Angaben des Auftraggebers keine harmonisierte europäische technische Spezifikation (z. B. Produktnorm oder EAD).

According to the applicant, the product is not compliant with any harmonised European technical specification (e.g. product standard or EAD).

3. Prüfberichte und Prüfergebnisse als Grundlage dieser Klassifizierung

Test reports and test results as a basis for this classification

3.1. Prüfberichte / Test reports

Name des Labors Name of laboratory	Auftraggeber Sponsor	Prüfverfahren Test method	Prüfbericht, Datum Test report, date
Prüfinstitut Hoch		EN ISO 11925-2 (Einzelflammentest / single flame source test)	PB-Hoch-260093 26.01.2026
		EN 13823 (SBI)	PB-Hoch-260094 26.01.2026



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

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Type: EN13501-1

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3.2. Ergebnisse / Results

Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Ergebnisse Results	Anforderung für B – s1,d0 Requirements
EN ISO 11925-2	F_s	16 (insg. / total 24)	max. 130 mm	–
	$F_s \leq 150$ mm Flammenausbreitung höchstens 150 mm flame spread no more than 150 mm		ja yes	erfüllt compliant
	Brennendes Abtropfen flaming droplets		nein no	erfüllt compliant

F_s Maximale vertikale Flammenausbreitung [mm].
Maximum vertical flame spread [mm].

Tabelle / Table 1: Prüfergebnis der Kleinbrennerprüfung / Result of single-flame source test

Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Ergebnisse (Mittelwert) Results (average value)	Anforderung Requirement
EN 13823	FIGRA _{0,2MJ}	3 (insg. / total 5)	0 W/s	A2 / B: ≤ 120 W/s
	FIGRA _{0,4MJ}		0 W/s	C: ≤ 250 W/s D: ≤ 750 W/s
	THR _{600s}		0,2 MJ	A2 / B: $\leq 7,5$ MJ C: ≤ 15 MJ
	SMOGRA		0 m ² /s ²	s1: ≤ 30 m ² /s ² s2: ≤ 180 m ² /s ²
	TSP _{600s}		23 m ²	s1: ≤ 50 m ² s2: ≤ 200 m ²
	FDP		d0	d0: Kein Brennen / no flaming d1: ≤ 10 s Brenndauer / flaming d2: > 10 s Brenndauer / flaming
	LSF		erfüllt compliant	Rand der Probe nicht erreicht Sample edge not reached

Erläuterungen / remarks:

FIGRA_{0,2MJ} Feuerwachstumswert [W/s] nach Erreichen des THR-Schwellenwertes 0,2 MJ
Fire Growth Rate [W/s] after reaching a THR threshold of 0,2 MJ

FIGRA_{0,4MJ} Feuerwachstumswert [W/s] nach Erreichen des THR-Schwellenwertes 0,4 MJ
Fire Growth Rate [W/s] after reaching a THR threshold of 0,4 MJ

THR_{600s} Gesamte freigesetzte Wärme während der ersten 600 Sekunden Beflammung [MJ]
Total heat release during the first 600 seconds of flame impingement [MJ]

SMOGRA Rauchentwicklungsrates [m²/s²]
Smoke Growth Rate [m²/s²]

TSP_{600s} gesamte freigesetzte Rauchmenge während der ersten 600 Sekunden Beflammung [m²]
Total smoke production during the first 600 seconds of flame impingement [m²]

LSF seitliche Flammenausbreitung bis zur Außenkante des langen Probenflügels
lateral spread of flame, reaching the far edge of the large sample wing

FDP brennendes Abtropfen während der ersten 600 Sekunden Beflammung [s]
flaming droplets / particles during the first 600 seconds of flame impingement [s]

Tabelle / Table 2: Prüfergebnisse der SBI-Prüfungen / SBI test results



United Kingdom



United Arab Emirates



+44 1422 833835



+971 4 884 7801



uksales@jcjoel.com



menasales@jcjoel.com

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Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: EN13501-1

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4. Klassifizierung und Anwendungsgebiet / Classification and field of application

4.1. Klassifizierung / Classification

Die Klassifizierung ist nach EN 13501-1:2018, Abschnitt 11 (Bauprodukte mit Ausnahme von Bodenbelägen) erfolgt.

This classification has been carried out acc. to EN 13501-1:2018, section 11 (construction products, excluding floorings).

Brandverhalten reaction to fire		Rauchentwicklung smoke production			Brennendes Abtropfen/Abfallen flaming droplets
B	–	s	1	,	d 0

Klassifizierung / Classification: B – s1,d0

4.2. Anwendungsgebiet / Field of application

Die Klassifizierung in Abschnitt 4.1 ist nur für das auf Seite 1 genannte und im Abschnitt 2 sowie den in Abschnitt 3.1 genannten Prüfberichten näher beschriebene Bauprodukt gültig.

Die Klassifizierung ist außerdem für die folgenden Produktparameter gültig:

- Farbe schwarz oder weiß

Diese Klassifizierung gilt für folgende Endanwendungsbedingungen:

- Angrenzende flächige Baustoffe müssen mindestens der Klasse A1 oder A2-s1,d0 nach EN 13501-1 entsprechen und eine Dicke von mindestens 9 mm und eine Rohdichte von mindestens 653 kg/m³ aufweisen. Der Abstand des Produkts zu diesen Baustoffen, muss mindestens 40 mm betragen. Ausgenommen davon sind Untergründe aus Gipsplatten, die nicht in diesem Endanwendungsbereich mitbegriffen sind.

The classification in section 4.1 is valid solely for the product referred to on page 1 and described in detail in section 2 as well as in the test reports listed in section 3.1.

The classification is additionally valid for the following product parameters:

- Colour black or white

This classification is valid for the following end use conditions:

- If fixed in front of underlying materials, these have to be at least of class A1 or A2-s1,d0 (EN 13501-1) and must have a thickness of at least 9 mm and a gross density of no less than 653 kg/m³. The distance of the product to these underlying materials must be at least 40 mm. Gypsum plasterboards are exempt as underlying materials and are not included in this end use condition.



5. Einschränkungen / Limitations

5.1. Geltungsdauer / Duration of validity

Die Klassifizierung gilt bis zum auf Seite 1 angegebenen Datum. Sie kann nach einer Überprüfung des Brandverhaltens verlängert werden. Der Klassifizierungsbericht verliert außerdem seine Gültigkeit, wenn sich die Klassifizierungskriterien gemäß DIN EN 13501-1 ändern oder ergänzt werden, oder wenn die Produktzusammensetzung oder der Produktaufbau geändert werden.



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

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Wenn keine kontinuierliche Überprüfung des Brandverhaltens durch den Hersteller stattfindet, verliert dieser Klassifizierungsbericht bei jeder Änderung des Produktionsprozesses, des Produktionsumfeldes, der Ausgangsstoffe oder der Zulieferer der Komponenten seine Gültigkeit. Das Brandverhalten muss dann erneut nachgewiesen werden.

This classification remains valid no later than until the date stated on page 1. It can be renewed after re-evaluation of the reaction to fire. This classification also loses its validity as soon as the classification criteria according to DIN EN 13501-1 are altered or amended, or as soon as the product formulation or its composition are altered. If the fire behaviour of the product is not continuously monitored by the manufacturer, each change in either of production process, production environment, raw materials, or chain of suppliers causes this classification to become invalid. In this case, the fire behaviour has to be reassessed.

5.2. Hinweise / Remarks

In Verbindung mit anderen Baustoffen, mit anderen Abständen, Befestigungen, Fugenausbildungen/Verbindungen, Dicken- oder Rohdichtenbereichen, Beschichtungen als in den Abschnitten 2 und 0 angegeben, kann das Brandverhalten negativ beeinflusst werden, so dass die Klassifizierung in Abschnitt 4.1 nicht mehr gilt. Das Brandverhalten von anderen als den oben angegebenen Parametern ist gesondert nachzuweisen.

Used in combination with other materials, esp. other substrates/backings, air gaps/voids, types of fixation joints, thickness or density ranges, coatings than those given in sections 2 and 0, the fire performance is likely to be influenced negatively, so that the classification assigned in section 4.1 will no longer be valid. The fire performance with parameters other than those given above has to be tested and classified separately.

Dieser Klassifizierungsbericht ersetzt nicht einen gegebenenfalls notwendigen baurechtlichen / bauaufsichtlichen Nachweis nach Landesbauordnung

This classification report is in no case a substitute for any required certification according to German building regulations.

Der Klassifizierungsbericht darf ohne vorherige Zustimmung des Prüfinstitut Hoch nur innerhalb des Geltungszeitraumes (siehe Abschnitt 5.1) und nur vollständig und nach Form und Inhalt unverändert veröffentlicht oder vervielfältigt werden.

Without written consent of the test laboratory, this test report may only be published or reproduced during its denoted period of validity (cf. section 5.1), providing that no changes to appearance or content are made and the report is complete.

Dieses Dokument stellt keine Typzulassung oder Zertifizierung des Produktes dar.

This document does not represent type approval or certification of the product.

Fladungen, 26.01.2026

Sachbearbeiterin
Clerk in charge


(M. Eng. Susanne Hart)



Leiter der Prüfstelle
Head of test laboratory


(Dipl.-Ing.(FH) Andreas Hoch)



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

J&C Joel 
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Prüfinstitut Hoch

Lerchenweg 1

D-97650 Fladungen

Tel.: int - 49 - 9778-7480-200

hoch.fladungen@t-online.de

www.reaction-to-fire.de



Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch
Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT PZ-Hoch-240737

for the proof of fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

company

description of samples fabric consisting of 100 PES FR, in black and white colour
name of the material „CS-Molton“
sampling by the company itself
content of request Proof of flammability to classify building materials to class B1
("schwerentflammbar") according to DIN 4102, part 1
validity of test report 31.05.2029
result The examined product meets in black and in white colour
the requirements of class B1 for hardly flammable
("schwerentflammbare") building materials according to
DIN 4102, pt. 1 (May 1998), suspended freely or with distance of
>40 mm to same or other plain materials.

This test report includes 4 pages and 6 enclosures.

Remark: If the building material mentioned above is not used as a product according to MBO § 2, Abs. 9, Ziffer 1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product as defined by State Building Prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws as defined by State Building Prescriptions. This has to be certified instead by:

- "allgemeine bauaufsichtliche Zulassung" (General Building Inspectorate Approval) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (General Building Inspectorate Certificate) or by
- "Zustimmung im Einzelfall" (Exceptional Approval)

This test report can underlie building supervisory procedures

- for regular building products for the prescribed proofs of conformity
- for irregular building products for the required proofs of applicability.

Without written consent of the test laboratory, this test report may only be published or duplicated during its denoted period of validity, providing that no changes to appearance or content are made.

PR-04/FB01 eng Rev04
member of 
notified body no.: 1508

By the DAkkS according to DIN EN ISO/IEC 17025 accredited test laboratory.
The accreditation is valid for the testing methods specified in the certificate.



Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1



Prüfinstitut Hoch
Lerchenweg 1
D-97650 Fladungen

page 2 of 4 of the test report
PZ-Hoch-240737

1. Description of test material in condition as delivered

PN 39102 "CS-Molton" colour: black

-fabric consisting of 100% PES FR- / side A: smoother surface
characteristic values determined by the test laboratory:
area weight: about 358 g/m² thickness: about 0,86 mm

PN 39103 "CS-Molton" colour: white

-fabric consisting of 100% PES FR- / side A: smoother surface
characteristic values determined by the test laboratory:
area weight: about 321 g/m² thickness: about 0,65 mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

Samples with a size of 1000 mm height and 190 mm width where cut from the material for fire testing.

The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples

mounting: freely suspended

#7793:	flaming side A in warp direction	black
#7795:	flaming side B in warp direction	black
#7796:	flaming side A in weft direction	black
#7794:	flaming side A in warp direction	white

4. Date of test

CW 21 in 2024

5. Results

The test has been performed according to DIN 4102 (Mai 1998)

line no.	Measurement	Result with the tested specimen				Dim.
	Test number	#7793	#7795	#7796	#7794	
	flaming direction	warp	warp	weft	warp	
	side	A	B	A	A	
	colour of fabric	black			white	
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1	1	---
2	Maximum flame height above bottom edge of specimen	40	40	40	40	---
3	Time ¹⁾	0:04	0:03	0:04	0:03	---
4	Burn-through / melting Time ¹⁾	0:06	0:05	0:05	0:05	---
5	Observations on the back side of specimen					
	Flames / Glowing	---	---	---	---	---
	Time ¹⁾	.f.	.f.	.f.	.f.	.f.
6	Change of colour	---	---	---	---	---
	Time ¹⁾	.f.	.f.	.f.	.f.	.f.
7	Falling of burning droplets	.f.	.f.	.f.	.f.	
	Start ¹⁾					min:s
	Extent					
8	sporadic falling of burning droplets ²⁾	-	-	-	-	
9	continuous falling of burning droplets ²⁾	-	-	-	-	min:s



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1



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page 3 of 4 of the test report
PZ-Hoch-240737

line no.	Measurement	Result with the tested specimen				Dim.
	Test number	#7793	#7795	#7796	#7794	
	flaming direction	warp	warp	weft	warp	
	side	A	B	A	A	
10	Falling of burning parts Start ¹⁾	./.	./.	./.	./.	min:s
	Extent					
11	sporadic falling of burning parts ²⁾	-	-	-	-	
12	continuous falling of burning parts ²⁾	-	-	-	-	
13	Burning duration at sieve plate (max.)	./.	./.	./.	./.	min:s
14	Impairment of burner by dropping or falling material: Time ¹⁾	./.	./.	./.	./.	min:s
15	Premature end of test Final occurrence of burning at the specimen ¹⁾	0:31	0:22	0:29	0:38	min:s
16	Time of eventually end of test ¹⁾	./.	./.	./.	./.	min:s
17	Afterburning after end of test Time ¹⁾	./.	./.	./.	./.	min:s
18	Number of specimen	-	-	-	-	
19	Front side of specimen ²⁾	-	-	-	-	
20	Rear side of specimen ²⁾	-	-	-	-	
21	flame length	-	-	-	-	cm
22	Afterglow after end of test Time ¹⁾	./.	./.	./.	./.	min:s
23	Number of specimen	-	-	-	-	
	Place of appearance					
24	Lower half of the specimen ²⁾	-	-	-	-	
25	Upper half of the specimen ²⁾	-	-	-	-	
26	Front side of specimen ²⁾	-	-	-	-	
27	Rear side of specimen ²⁾	-	-	-	-	
28	Density of smoke ≤ 400 % * min	1	1	1	1	% * min
29	> 400 % * min ⁴⁾	-	-	-	-	% * min
30	Diagram in enclosure no.	1	2	3	4	
31	Residual lengths: individual values ³⁾					
	Specimen 1	67	73	60	71	cm
	Specimen 2	58	60	59	64	cm
	Specimen 3	62	65	58	66	cm
	Specimen 4	64	74	69	60	cm
32	Average residual length ³⁾	63	68	62	65	
33	Photo of specimen in enclosure no.	1	2	3	4	
34	Flue gas temperature					
35	Maximum of average values Time ¹⁾	116 09:57	114 08:10	118 07:09	118 07:36	°C min:s
36	Diagram in enclosure no.	1	2	3	4	
37	Remarks: - none -					

¹⁾ indication of times relative to beginning of test

²⁾ checked if applicable

³⁾ indication of carrier/foam layer separated in case of fire-proofing agents

⁴⁾ very strong development of smoke



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

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page 4 of 4 of the test report
PZ-Hoch-240737

6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of more than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

lineno.	Measurement	Result with the tested specimen				dimension
	test-no.	#7793 warp direction side A	#7795 warp direction side B	#7796 weft direction side A	#7794 warp direction side A	
	colour of fabric	black				white
1	residual length	63	68	62	65	cm
2	max. smoke temperature	116	114	118	118	°C
3	integral of smoke density	1	1	1	1	%min
4	remarks: none					

According to DIN 4102, pt. 1, hardly flammable ("schwerentflammbare") building materials must meet the requirements of class B2.

After performing additional tests in the ignitability apparatus, this could be verified (encl. 5 & 6).

8. Special remarks

- This report is only valid for the material as described in paragraph 1. In combination with other materials or with additional coatings or primers etc., the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions, washing or cleaning with chemicals.
- This test report is not valid if the material is used as a building product in the sense of the State Building Regulations ("Landesbauordnungen", MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests, only the German original version is relevant.
- In General Building Inspectorates procedures, this test report can be used for
 - regular building materials for the required proof of accordance
 - for not regular building materials for the required proof of applicability

9. Validity

This test report is valid until the denoted date on page 1. The test report becomes invalid in case the standards on which these tests are based are changed.

Fladungen, 06.06.2024

Clerk in charge:

(Dipl.-Ing. (FH) Jürgen Hammer)



Head of test laboratory:

(Dipl.-Ing. (FH) Andreas Hoch)



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

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enclosure 1 test report
PZ-Hoch-240737

Fire shaft test #7793

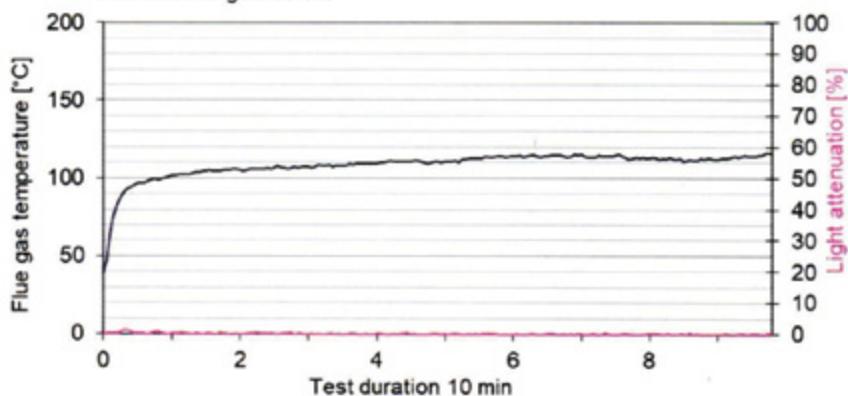


measurement

#7793, PN39102: "CS-Molton", schwarz, A + K

Max. flue temperature: 116°C, Smoke density integral: 1%min

Residual length: 63 cm



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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Fire Test Certificate - Specimen

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enclosure 2 test report
PZ-Hoch-240737

Fire shaft test #7795

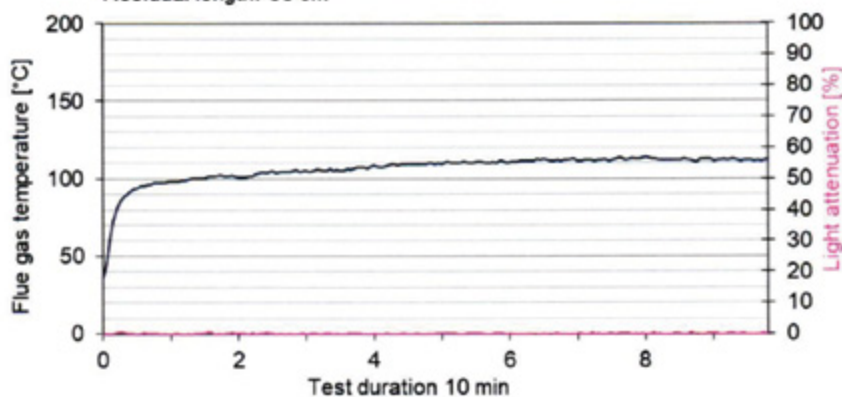


measurement

#7795, PN39102: "CS-Molton", schwarz, B + K

Max. flue temperature: 114°C, Smoke density integral: 1%min

Residual length: 68 cm



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

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enclosure 3 test report
PZ-Hoch-240737

Fire shaft test #7796

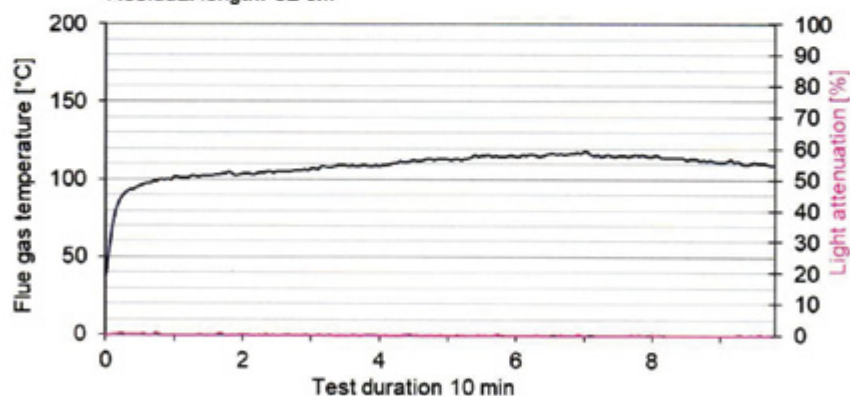


measurement

#7796, PN39102: "CS-Molton", schwarz, A + S

Max. flue temperature: 118°C, Smoke density integral: 1%min

Residual length: 62 cm



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+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

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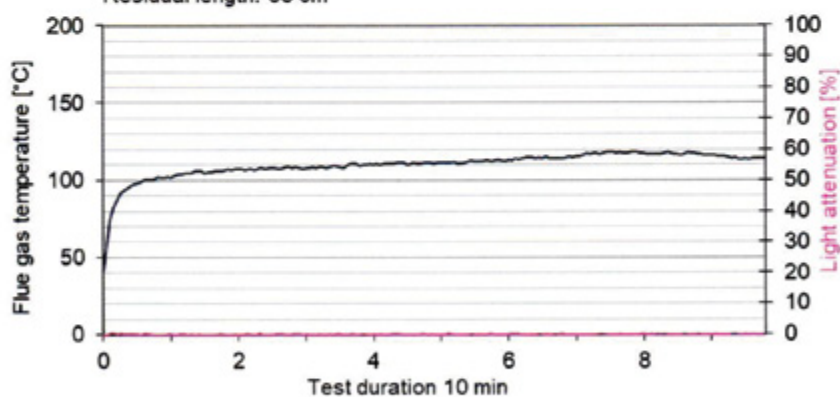
enclosure 4 test report
PZ-Hoch-240737

Fire shaft test #7794



measurement

#7794, PN39103: "CS-Molton", weiß, A + K
Max. flue temperature: 118°C, Smoke density integral: 1%/min
Residual length: 65 cm



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

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enclosure 5 test report
PZ-Hoch-240737

Test for normal flammability classifying B2 according to DIN 4102

1. Description of test material in condition as delivered cf. page 2
2. Preparation of samples
Samples for the ignitability apparatus were cut from the sample.
The samples were kept in a climate 23/50 until they reached constant weight.
3. Arrangement of samples freely suspended
Flaming side A and side B in warp and in weft direction
4. Date of test CW 19 in 2024
5. Results

PN 39102: side A in warp	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition ¹⁾	1	1	1	1	1	--	2	--	--	--	--	--	s
measurement mark reached ¹⁾²⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
maximum flame height	11	11	8	7	8	--	6	--	--	--	--	--	cm
time of max. flame height	15	12	8	8	10	--	6	--	--	--	--	--	s
Self-cessation of flames ¹⁾	19	17	10	10	12	--	8	--	--	--	--	--	s
end of glowing	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material ¹⁾²⁾	-/-	-/-	-/-	-/-	-/-	--	-/-	--	--	--	--	--	s
Appearance after test: burned out till max. width 3 cm x height 12 cm													

PN 39102: additional tests	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	BK	AS	BS	--	--	--	BK	AS	BS	--	--	--	
ignition ¹⁾	1	1	1	--	--	--	2	2	2	--	--	--	s
measurement mark reached ¹⁾²⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
maximum flame height	7	9	10	--	--	--	8	6	7	--	--	--	cm
time of max. flame height	6	10	15	--	--	--	8	7	6	--	--	--	s
Self-cessation of flames ¹⁾	8	14	19	--	--	--	11	9	9	--	--	--	s
end of glowing	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
smoke development (visually)	moderate						moderate						
dropping of burning material ¹⁾²⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. width 3 cm x height 12 cm													

¹⁾ time denoted relative to beginning of test
A side A B side B K warp S weft

²⁾ during 20 Sec -/- no occurrence -- no information

Fire Test Certificate - Specimen

Fabric: IFR Molton CS

Type: B1

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enclosure 6 test report
PZ-Hoch-240737

PN 39103: additional tests samples no.	edge-test						surface-test						Dim
	1	2	3	4	5	6	1	2	3	4	5	6	
side/direction	AK	BK	AS	BS	--	--	AK	BK	AS	BS	--	--	
ignition ¹⁾	1	1	1	1	--	--	2	2	2	2	--	--	s
measurement mark reached ¹⁾²⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
maximum flame height	4	4	4	4	--	--	3	4	3	3	--	--	cm
time of max. flame height	3	3	4	3	--	--	3	8	3	3	--	--	s
Self-cessation of flames ¹⁾	4	4	7	4	--	--	4	12	4	4	--	--	s
end of glowing	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
flames were extinguished after ¹⁾	-/-	-/-	-/-	-/-	--	--	-/-	-/-	-/-	-/-	--	--	s
smoke development (visually)	moderate						little						
dropping of burning material ¹⁾²⁾	-/-	-/-	-/-	--	--	--	-/-	-/-	-/-	--	--	--	s
Appearance after test: burned out till max. width 2,5 cm x height 7 cm													

¹⁾ time denoted relative to beginning of test ²⁾ during 20 Sec -/- no occurrence -- no information
A side A B side B K warp S weft

6. Remarks and explanations to the testing procedure - none -

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no dropping burning material.



United Kingdom



+44 1422 833835



uksales@jcjoel.com



United Arab Emirates



+971 4 884 7801



menasales@jcjoel.com

www.jcjoel.com