

Molton 2.0

Perfect For: Masking • Decorative/Scenic • Film & TV • Stage



J&C Joel 

the inspiration behind the performance

Contents

Composition & Care

200 cm 3

Fire Certificate

BS5867 Part 2 Type B 4

M1 7

B1 20

EN13773 27

EN13501-1 33

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

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	NDFR
	Fire Certification	BS5867, M1, B1, EN13773, EN13501-1
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Cotton
	Construction of Fabric	Twill Weave
Chemicals	Surface Treatments	Dyed & Flameproofed
	Brand Name of Flame Retardant Chemicals	KAPP-Chemie GMBH & Co.Kg
	Chemical name of Flame Retardant Chemicals	Kappaflam CFP
	Process of Flame Retardant Chemicals	Immersion
Care	Information	<p>Non-Durably Flame Retardant. This means that the fabric is chemically treated and if wet (in any way) should be retreated to meet the flammability requirements of BS5867 Part 2 Type B, M1, B1, EN13773 and EN13501-1. Therefore, the cloth will not withstand wet cleaning and should be re-flame proofed whenever wet. The cloth can be professionally dry cleaned using the correct chemical process.</p> <p>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. Commercial flame retardants may alter the aesthetics, appearance, colour or performance of the textile material.</p> <p>This fabric is not pre-shrunk.</p>
	Laundering Treatment	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Dry Clean Only </div> <div style="text-align: center;">  Do Not Wash </div> <div style="text-align: center;">  Do Not Bleach </div> <div style="text-align: center;">  Do Not Iron </div> <div style="text-align: center;">  Do Not Tumble Dry </div> </div>
Notes		

 Fire Rating: NDFR	 Approx Bale Length: 60m / 197ft	 Width: 200cm / 79"	 Weight: 320 g/m ²	 Fire Certification: BS5867, M1, B1 EN13773, EN13501-1	 Colours Available
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For further information please contact our sales team sales@jcjoel.com

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: BS5867 Part 2 Type B

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TESTING • CERTIFICATION • AUDITING

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: 01 August 2017

Our Ref: 53519-18
Your Ref: -

Page: 1 of 3

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

Job Title: Surface Ignition Of Curtains & Drapes (Type B)

Client's Order No: -

Date of Receipt: 19 May 2017
Date of Test Start: 05 June 2017

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

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: Molton 2.0
Type: BS5867 Part 2 Type B

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Sample was identified as follows:

Molton, stated to be NDFR

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

Pre-Treatment

No water treatment required as the sample was stated to be non durable flame retardant.

Conditioning

The test specimens were conditioned for at least 24 hours in the standard atmosphere of 60 ± 5 % relative humidity (R.H.) and 20 ± 2 °C.

Testing

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).

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.



1066

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Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: BS5867 Part 2 Type B

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TESTING • CERTIFICATION • AUDITING

J. & C. Joel Limited

RESULTS

Sample Ref: Molton, stated to be NDFR

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

Date: 01 August 2017

Our Ref: 53519-18
Your Ref: -

Page: 3 of 3

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: Pass

Conclusion

The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 – the fabric must be clearly labelled 'If wetted in any way it is essential to re-treat the fabric to meet flammability requirements'.

The 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 used in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2011). 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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Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

12



LABORATOIRE CENTRAL DE LA PREFECTURE DE POLICE
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MESURES PHYSIQUES ET SCIENCES DE L'INCENDIE
ESSAIS DE CONFORMITÉ ET EXAMEN DE MATÉRIELS

**PROCÈS-VERBAL DE CLASSEMENT
DE RÉACTION AU FEU D'UN MATÉRIAU**
PRÉVU À L'ARTICLE 5 DE L'ARRÊTÉ DU 21 NOVEMBRE 2002

Valable 5 ans à partir de la date de délivrance

PROCÈS-VERBAL N° 16/14360
et annexes de 12 pages

Marque commerciale : ARTICLE N°13/07 MOLLETON - 11/06 - 14/06 - 15/06 - SATIN
MOLLETON
Description sommaire : Tissu uni présentant une ou deux face molleton
Composition globale : 100 % Coton ignifugé
Masse : De 250 à 350 g/m²
Épaisseur : De 0,8 à 1,5 mm
Coloris : Unis variés
Nature des essais : Essais au brûleur électrique
Vieillessement accéléré en chambre climatique

Classement :

M1

Durabilité du classement : Non limitée (Matériau non lavable, non nettoyable à sec)

Compte tenu des critères résultant des essais décrits dans le rapport d'essai annexé n° 16/14360 du 03/04/2017.

Ce procès-verbal atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens de l'article L. 115-27 du code de la consommation et de la loi du 3 juin 1994.

Fait à Paris, le 03/04/2017

Pour le Directeur,
l'adjoint au chef du pôle mesures physiques et
sciences de l'incendie

Laure MIMOUNI



Le responsable technique

Jennifer CHERON

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Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1



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MESURES PHYSIQUES ET SCIENCES DE L'INCENDIE
ESSAIS DE CONFORMITÉ ET EXAMEN DE MATÉRIELS

**RAPPORT D'ESSAI DE RÉACTION AU FEU
D'UN MATÉRIAU**
PRÉVU À L'ARTICLE 5 DE L'ARRÊTÉ DU 21 NOVEMBRE 2002
Valable 5 ans à partir de la date de délivrance

RAPPORT D'ESSAI N° 16/14360

ANNEXES

Sommaire

1 BUT DES ESSAIS	3
2 PROVENANCE ET CARACTÉRISTIQUES DES ÉCHANTILLONS	3
3 MODALITÉS DES ESSAIS ET RÉSULTATS	4
4 OBSERVATIONS CONCERNANT LES ESSAIS	13

NOTA : Ce rapport d'essai atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens de l'article L. 115-27 du code de la consommation et de la loi du 3 juin 1994.

RAPPORT_16/14360_ANNEXES

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

3/13

1 BUT DES ESSAIS

Les essais auxquels se rapporte le procès-verbal de même numéro ont pour but de déterminer le classement de réaction au feu des matériaux d'aménagement, conformément à l'article 3 et annexe 2 de l'arrêté du ministère de l'intérieur, de la sécurité intérieure et des libertés locales du 21 novembre 2002 (J.O. du 31 décembre 2002) modifié.

2 PROVENANCE ET CARACTÉRISTIQUES DES ÉCHANTILLONS

Marque commerciale

ARTICLE N°13/07 MOLLETON - 11/06 - 14/06 - 15/06 - SATIN MOLLETON

Caractéristiques attestées par le demandeur

Composition : 100 % Coton ;
Structure : Tissu ;
Type d'armure : Sergé et Satin ;
Masse au mètre carré : de 250 à 360 g/m² ;
Épaisseur : Variable de 0,9 à 1,1 mm ;
Densité : 30 à 63 fils/cm² ;
Traitement subis : Grattage + teinture ;
Produit d'ignifugation : Kappaflam CFP de Kapp Chemie/Miehlen pour noir/blanc/écru Sergé
Flacavon R neu de Schill + Seilacher AG /Boblingen pour les coloris Sergé
Ruco Flam NAF de Rudolf GmbH/Geredsriet pour le Satin ;
Technique utilisée : En bain d'ignifugation par foulardage ;
Poids de produit au m² : 170 g de produit par kg de tissu ;
Conditions d'entretien : Matériau non lavable, non nettoyable à sec ;
Utilisation : Textile libre (rideau, tenture, ...), Revêtement de mur (tendu) ;
Coloris présentés : Gamme complète clairs/moyens/foncés (Écru, Blanc, Gris, Bleu, Noir).

Fabric: Molton 2.0
Type: M1



Rapport d'examen de dossier n° 16/14360/RG1

4/13

Caractéristiques constatées par le laboratoire

Description : Tissu uni présentant une ou deux face molleton ;
Masse au mètre carré : 250 à 350 g/m² déterminée sur des échantillons de 1080 cm² ;
Épaisseur : 0,8 à 1,5 mm ;
Coloris testés : 8 (1 Écru, 1 Blanc, 1 Bleu, 2 Gris, 3 Noir).

Échantillons déposés le 4 janvier 2017.

Échantillons découpés par le laboratoire.

Essais effectués le 8 février et le 27 mars 2017.

3 MODALITÉS DES ESSAIS ET RÉSULTATS

MODALITÉS DES ESSAIS

ESSAI PRINCIPAL :

- Essai au brûleur électrique (norme NF P 92-503 - décembre 1995)

ÉPREUVES DE DURABILITÉ (norme NF P 92-512 – mars 1986) :

- Vieillesse accéléré en chambre climatique

Épreuve en chambres climatiques

L'épreuve en chambre climatiques consiste à faire subir à l'éprouvette disposée en position verticale 4 cycles d'une durée de 2 semaines chacune.

Après stabilisation à 50% d'humidité relative et température de 23 °C le séjour de l'éprouvette dans chacune des chambres climatiques est alternativement de 4 jours à 90% d'humidité relative, 3 jours à 15% d'humidité relative, 3 jours à 90% d'humidité relative, 4 jours à 15% d'humidité relative, afin que les durées passées dans chaque enceinte soient semblables. À l'issue des cycles l'éprouvette subit également un brossage manuel à plat de 10 passages simples au moyen de la brosse en nylon, puis une stabilisation à une température de 23 °C et 50% d'humidité relative.

CONDITIONNEMENT DES ÉPROUVETTES

Les éprouvettes sont conditionnées, avant essai, dans une enceinte à 23 °C ± 2°C et 50% ± 5% d'humidité relative pendant 7 jours ou jusqu'à obtention d'une masse constante. La masse est considérée constante quand deux pesées successives à 24 heures d'intervalles ne diffèrent pas de plus de 0,1% ou de 0,1 g.

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1



Rapport d'examen de dossier n° 16/14360/RG1

5/13

RÉSULTATS DES ESSAIS « AVANT ÉPREUVE DE DURABILITÉ »

BRÔLEUR ÉLECTRIQUE

Caractéristiques des éprouvettes	Référence des échantillons	07/EC.1430	07/EC.1431	07/EC.1432	07/EC.1433
	Masse (en g)	33,5	33,7	37,1	36,1
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	1,31	1,16	1,44	1,44
	Face	1	2	2	1
	Coloris	écru 13/07	Gris 13/07	Bleu 13/07	Bleu 13/07
	Sens	Chaîne	Trame	Chaîne	Trame
	Inflammations à (secondes)	Néant	Néant	Néant	Néant
Résultat des essais	Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant
	Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON
	Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON
	Chutes de gouttes non enflammées	NON	NON	NON	NON
	Zones en ignition	NON	NON	NON	NON
	Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-
	Longueur de la zone totalement détruite ou carbonisée en mm	177	174	212	187

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	188

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

6/13

Caractéristiques des éprouvettes	Référence des échantillons	07/EC1434	07/EC1435	07/EC1436	07/EC1437
	Masse (en g)	32,9	33,2	33,7	33,3
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	0,98	0,98	0,78	0,78
	Face	Molleton	Tissu	Tissu	Molleton
	Coloris	Blanc Satin	Blanc Satin	Gris Satin	Gris Satin
	Sens	Chaîne	Trame	Chaîne	Trame
	Résultat des essais				
Inflamnations à (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON	
Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON	
Chutes de gouttes non enflammées	NON	NON	NON	NON	
Zones en ignition	NON	NON	NON	NON	
Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-	
Longueur de la zone totalement détruite ou carbonisée en mm	182	191	196	185	

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	189

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

7/13

Caractéristiques des éprouvettes	Référence des échantillons	07/EC.1438	07/EC.1439	07/EC.1440	07/EC.1441
	Masse (en g)	33,0	33,3	39,9	40,3
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	1,22	1,22	1,46	1,46
	Face	1	2	2	1
	Coloris	Noir 11/06	Noir 11/06	Noir 14/06	Noir 14/06
	Sens	Chaîne	Trame	Chaîne	Trame
	Inflamations à (secondes)	Néant	Néant	Néant	Néant
Résultat des essais	Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant
	Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON
	Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON
	Chutes de gouttes non enflammées	NON	NON	NON	NON
	Zones en ignition	NON	NON	NON	NON
	Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-
	Longueur de la zone totalement détruite ou carbonisée en mm	165	171	180	181

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	175

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

8/13

Caractéristiques des éprouvettes	Référence des échantillons	07/EC1442	07/EC1443
	Masse (en g)	40,2	40,2
	Dimensions (en mm)	600 x 180	600 x 180
	Épaisseur (en mm)	1,41	1,41
	Face	1	2
	Coloris	Noir 15/06	Noir 15/06
	Sens	Chaîne	Trame
	Inflammations à (secondes)	Néant	Néant

Résultat des essais	Durée de l'inflammation (secondes)	Néant	Néant
	Durée de l'inflammation supérieure à 5 secondes	NON	NON
	Chutes de gouttes et/ou débris enflammés	NON	NON
	Chutes de gouttes non enflammées	NON	NON
	Zones en ignition	NON	NON
	Largeur maximale de la zone détruite entre 450 et 600 mm	-	-
	Longueur de la zone totalement détruite ou carbonisée en mm	186	181

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	184

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

9/13

« APRÈS ÉPREUVE DE DURABILITÉ »

BRÛLEUR ÉLECTRIQUE

Caractéristiques des éprouvettes	Référence des échantillons	07/EC2340	07/EC2341	07/EC2342	07/EC2343
	Masse (en g)	33,1	33,2	35,8	35,7
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	1,31	1,16	1,44	1,44
	Face	1	2	2	1
	Coloris	Écru 13/07	Gris 13/07	Bleu 13/07	Bleu 13/07
	Sens	Chaîne	Trame	Chaîne	Trame
	Résultat des essais				
Inflammations à (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON	
Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON	
Chutes de gouttes non enflammées	NON	NON	NON	NON	
Zones en ignition	NON	NON	NON	NON	
Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-	
Longueur de la zone totalement détruite ou carbonisée en mm	197	175	205	183	

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	190

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 1G/14360/RG1

10/13

Caractéristiques des échantillons	Référence des échantillons	07/EC2344	07/EC2345	07/EC2346	07/EC2347
	Masse (en g)	32,6	33,3	33,7	33,8
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	0,98	0,98	0,78	0,78
	Face	Molleton	Tissu	Tissu	Molleton
	Coloris	Blanc Satin	Blanc Satin	Gris Satin	Gris Satin
	Sens	Chaîne	Trame	Chaîne	Trame
	Résultat des essais				
Inflammations à (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant	
Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON	
Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON	
Chutes de gouttes non enflammées	NON	NON	NON	NON	
Zones en ignition	NON	NON	NON	NON	
Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-	
Longueur de la zone totalement détruite ou carbonisée en mm	180	194	229	216	

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	205

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

J&C Joel 

the inspiration behind the performance



Rapport d'examen de dossier n° 16/14360/RG1

11/13

Caractéristiques des éprouvettes	Référence des échantillons	07/EC2348	07/EC2349	07/EC2350	07/EC2351
	Masse (en g)	32,9	33,5	39,8	39,8
	Dimensions (en mm)	600 x 180	600 x 180	600 x 180	600 x 180
	Épaisseur (en mm)	1,22	1,22	1,46	1,46
	Face	1	2	2	1
	Coloris	Noir 11/06	Noir 11/06	Noir 14/06	Noir 14/06
	Sens	Chaîne	Trame	Chaîne	Trame
	Inflammations à (secondes)	Néant	Néant	Néant	Néant

Résultat des essais	Durée de l'inflammation (secondes)	Néant	Néant	Néant	Néant
	Durée de l'inflammation supérieure à 5 secondes	NON	NON	NON	NON
	Chutes de gouttes et/ou débris enflammés	NON	NON	NON	NON
	Chutes de gouttes non enflammées	NON	NON	NON	NON
	Zones en ignition	NON	NON	NON	NON
	Largeur maximale de la zone détruite entre 450 et 600 mm	-	-	-	-
	Longueur de la zone totalement détruite ou carbonisée en mm	173	164	181	171

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	173

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

12/13

Caractéristiques des éprouvettes	Référence des échantillons	07/EC2352	07/EC2353
	Masse (en g)	40,0	38,4
	Dimensions (en mm)	600 x 180	600 x 180
	Épaisseur (en mm)	1,41	1,41
	Face	1	2
	Coloris	Noir 15/06	Noir 15/06
	Sens	Chaîne	Trame
	Inflammations à (secondes)	Néant	Néant

Résultat des essais	Durée de l'inflammation (secondes)	Néant	Néant
	Durée de l'inflammation supérieure à 5 secondes	NON	NON
	Chutes de gouttes et/ou débris enflammés	NON	NON
	Chutes de gouttes non enflammées	NON	NON
	Zones en ignition	NON	NON
	Largeur maximale de la zone détruite entre 450 et 600 mm	-	-
	Longueur de la zone totalement détruite ou carbonisée en mm	177	177

Valeur moyenne des largeurs maximales détruites entre 450 à 600 mm (en mm)	0
Valeur moyenne des longueurs totalement détruites ou carbonisées (en mm)	177

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: M1

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Rapport d'examen de dossier n° 16/14360/RG1

13/13

4 OBSERVATIONS CONCERNANT LES ESSAIS

Essai au brûleur électrique

Sous l'action du brûleur électrique et de la flamme pilote, le matériau carbonise sans qu'il ne soit observé d'inflammation.

La longueur moyenne détruite sur les éprouvettes est inférieure à 350 millimètres.

Au cours des essais, il n'a pas été observé la chute de gouttes enflammées ou non.

Essais après épreuve de durabilité

Les résultats des essais effectués, après l'épreuve de durabilité (*vieillesse accélérée en chambre climatique*), ne modifient pas le classement obtenu avant l'épreuve de durabilité.

Fait à Paris, le 03/04/2017

Pour le Directeur,
l'adjoint au chef du pôle mesures physiques et
sciences de l'incendie

Laure MIMOUNI



Le responsable technique

Jennifer CHERON

SPECIMEN

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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1/6



iBMB MPA
TU BRAUNSCHWEIG

Institut für Baustoffe, Materialprüfanstalt
Massivbau und Brandschutz für das Bauwesen

General Building Authority Test Certificate

Test certificate number: P-3574/850/12-MPA BS

Subject: Fire protection product "KAPPAFLAM CFP" for cellulose fiber fabrics pursuant to the Construction Products List ("Bauregelliste") A, part 2, version 2011/2, serial number 2.10.2.

Applicant: KAPP-CHEMIE GmbH & Co. KG
Industriestrasse 2-4

56357 Miehlen

Date of issue: May 23, 2017

Date of expiry: July 31, 2022

According to the present General Building Authority Test Certificate, the construction product described above can be used to comply with the State Building Codes ("Landesbauordnungen") of the respective federal state.

The present General Building Authority Test Certificate consists of 6 pages and -- annexes.

The present General Building Authority Test Certificate P-3574/850/12-MPA BS dated May 23, 2017, replaces the General Building Authority Test Certificate no. P-3574/850/12-MPA BS dated July 2, 2012.

The present General Building Authority Test Certificate no. P-3574/850/12-MPA BS was first issued on July 2, 2012.

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The present General Building Authority Test Certificate must only be distributed if it is complete and without any alterations. Excerpts or abridgements need to be authorized by MPA Braunschweig beforehand. Any translations of this document not initiated by MPA must contain the note "Translation of the German original, not verified by Materialprüfanstalt (MPA) für das Bauwesen, Braunschweig". Documents without stamp and signature are not valid. Every page of the present General Building Authority Test Certificate has been stamped with the official seal of MPA Braunschweig.

Materialprüfanstalt (MPA)
für das Bauwesen
Beethovenstrasse 52
D-38106 Braunschweig

Phone +49 (0)531-391-5400
Fax +49 (0)531-391-5900
info@mpa.tu-bs.de
www.mpa.tu-bs.de

Norddeutsche LB Hannover
106 020 050 Bank code: 250 500 00
Swift code: NOLADE 2H
VAT ID: DE183500654
Tax ID: 14/201/22859
IBAN: DE5825050000106020050

Notified body (0761-CPD)
MPA Braunschweig is accredited and notified for testing, supervision, inspection and certification by the building supervision authorities. MPA Braunschweig is accredited as a testing and calibration laboratory in accordance with ISO/IEC 17025 and as an inspection body in accordance with ISO/IEC 17020.



Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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2/6

MPA BRAUNSCHWEIG

Page 2 | General Building Authority Test Certificate no. P-3574/850/12-MPA BS of 05/23/2017



I. General provisions

1. The General Building Authority Test Certificate proves that the construction product can be used to comply with the State Building Code ("Landesbauordnung").
2. The General Building Authority Test Certificate does not replace the approvals, permits, authorizations, consents and certifications prescribed by law.
3. The General Building Authority Test Certificate is issued without prejudice to any third party rights, in particular private property rights.
4. Without prejudice to more extensive regulations, the producers and distributors of the construction product must provide the users of the construction product with copies of the General Building Authority Test Certificate and must caution them that the General Building Authority Test Certificate must be available at the site of use. Upon request, the authorities concerned must be provided with copies of the General Building Authority Test Certificate.
5. The present General Building Authority Test Certificate must only be duplicated as a whole. Any extract publication must be authorized by MBA Braunschweig. Texts and drawings in advertising brochures must not contradict the General Building Authority Test Certificate. Translations of the General Building Authority Test Certificate must contain the indication "Translation of the original version not verified by Materialprüfanstalt für das Bauwesen Braunschweig".
6. The General Building Authority Test Certificate is issued until revoked. The General Building Authority Test Certificate can be subsequently amended, especially if new technical achievements require it.

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Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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CERTIFIED TRANSLATION FROM GERMAN 3/6

MPA BRAUNSCHWEIG
Page 3 | General Building Authority Test Certificate no. P-3574/850/12-MPA BS of 05/23/2017

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II. Special provisions

1 Subject and scope of use

1.1 Subject

1.1.1 The General Building Authority Test Certificate shall be applicable for the production and use of the fire protection product called "KAPPAFLAM CFP" for the equipment of cellulose fiber fabric as a flame-retardant building material of the fire classification DIN 4102-B1 in accordance with the DIN standard 4102-1¹⁾:1998-05.

1.1.2 The fire protection product is a combination of various inorganic salts.

1.1.3 The General Building Authority Test Certificate for the construction product is issued in accordance with the information of the Construction Products List "Bauregelliste" A, part 2, serial number 2.10.2, version 2015/2.

1.2 Scope of use

1.2.1 The fire protection product is to be used to equip cellulose fiber fabrics with a weight per unit area of $\geq 50 \text{ g/m}^2$ if these fabrics are used as construction products (e.g. stage curtains) which will be permanently installed.

1.2.2 The fabric equipped with the fire protection product must only be used in closed rooms without any influence of humidity. The persistence of the flame-retarding equipment against washing, dry-cleaning or weathering has not been proved.

1.2.3 The proof of the flame-retardant property is not valid in combination with other construction products, e.g. when the surface of the building material is coated with paint, lamination or the like.

1.2.4 The proof of the flame-retardant property is only valid for equipped cellulose fiber fabrics arranged with a distance of $> 40 \text{ mm}$ to laminar building materials.

1.2.5 Without prejudice to this General Building Authority Test Certificate, components and special components containing the building material need a Test Certificate ("Prüfzeugnis") / General Building Authority Test Certificate ("allgemeines bauaufsichtliches Prüfzeugnis") or a General Building Authority Approval ("allgemeine bauaufsichtliche Zulassung"), depending on the type of construction product.

1.2.6 The present General Building Authority Test Certificate does not contain any statements concerning the compliance with requirements to sound-proofing and thermal protection.

1.2.7 On the basis of the declaration of the applicant that in the construction product no products subject to the Ordinance on Hazardous Substances ("Gefahrstoffverordnung"), Chemicals Prohibition Ordinance ("Chemikalien-Verbotverordnung") or the CFC Halon Prohibition Ordinance ("FCKW-Halon-Verbotsverordnung") were used, and/or that he complies with the obligations under the above regulations (especially the labeling requirements), there was no reason for testing the effects of the construction products on the compliance with requirements concerning health and environment protection.

Furthermore, the applicant declares that - if measures have to be taken for trading and marketing or use with regards to hygiene or environment protection - the applicant has initiated them and/or published them in the required form.

Therefore, MPA Braunschweig saw no reason for testing the effects of the fitted construction product to health and environment.

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¹⁾ DIN 4102-1: Fire behavior of building materials and building components; Building materials; concepts, requirements and tests (publication date: May 1998) - Sections 3 and 6.



Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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Page 4 | General Building Authority Test Certificate no. P-3574/850/12-MPA BS of 05/23/2017



4/6

2 Provisions for the construction product

2.1 Properties and composition

- 2.1.1 The fire protection product is a white, crystalline powder and is a combination of different inorganic salts.
- 2.1.2 The composition of "KAPPAFLAM CFP" must correspond to the data stored at the MPA in Braunschweig.

2.2 Test procedure

As a fire protection product according to DIN 4102-16, section 7.16.2, the product "KAPPAFLAM CFP", applied on cellulose fiber fabrics, must comply with the requirements for flame-retardant building material (DIN 4102-B1) in accordance with DIN 4102-1¹⁾, section 6.1.

2.3 Basis for issuing the General Building Authority Test Certificate

Name of the test body	Customer	Number of the Test Certificate/ Date of issue	Test procedure / rules
MPA Braunschweig	KAPP-CHEMIE GmbH & Co. KG Industriestrasse 2-4 56357 Miehlen	3728/336/11-Het of 06/30/2011	DIN 4102-1 : 1998-05 Section 6.1 DIN 4102-16: 1998-05 ²⁾ Section 7.16.2

2.4 Production and labeling

2.4.1 Production

For the production of the fire protection product, the provisions of section 2.1 must be complied with.

2.4.2 Labeling

The producer must label the construction product, the packaging of the construction product or the package insert – or, if this poses difficulties, the delivery note or an annex to the delivery note - with the Conformity Mark ("Ü-Zeichen") in accordance with the Conformity Mark Ordinances [Übereinstimmungszeichen-Verordnungen] of the federal states. He must only label them if the requirements under section 2.1 and 2.2 have been complied with.

¹⁾ DIN 4102-1: Fire behavior of building materials and building components: Building materials; concepts, requirements and tests (publication date: May 1998) - Sections 3 and 6.1.

²⁾ DIN 4102-16: Fire behavior of building materials and building components: Conducting fire shaft tests (publication date: May 1998) - Sections 7.16.1, 7.16.2, Sections 8 and 9.



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Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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Page 5 | General Building Authority Test Certificate no. P-3574/850/12-MPA BS of
05/23/2017


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5/6

The following information must be included on the construction product or the packaging or the package insert or on an annex to the delivery note:

- Product name
- Conformity Mark (“Ü-Zeichen”) with
 - Producer’s name
 - Test Certificate number: P-3574/850/12-MPA BS
 - Logo or name of the certifying body
- Manufacturing site
- Flame-retardant (fire classification DIN 4102-B1) on cellulose fiber fabric
- “Only flame-retardant (fire classification DIN 4102-B1) if a distance of >40 mm is observed to the same or other laminar building materials.

2.4.3 A note that the resistance to water, dry-cleaning and weathering has not been proved must be integrated into the instructions for use, and a label with the note must be attached to the equipped product.

2.5 Proof of conformity (“Übereinstimmungsnachweis”)

2.5.1 General information

The confirmation that the construction product conforms to the regulations of this General Building Authority Test Certificate must be carried out for every production plant with a Certificate of Conformity on the basis of an in-house production control and a regular external supervision - including an initial test of the construction product - in accordance with the following regulations:

To be granted a Certificate of Conformity and for the external supervision including the product tests that need to be carried out, the producer of the construction product must involve an accredited certification body and a supervision board accredited for this.

2.5.2 In-house production control

In every production plant, an in-house production control in accordance with DIN 18200³⁾ 2000-05, section 3, must be installed, which ensures the consistent production and composition of the construction product as under section 2.1.

For the in-house production control, the Guidelines Concerning the Proof of Conformity of Flame-Retardant Building Materials (fire classification DIN 4102-B1)⁴⁾ in the applicable version shall apply.

The results of the in-house production control must be recorded, evaluated and retained for at least 5 years. They must be submitted to the supervision board upon request.

2.5.3 External supervision

In every production plant, the in-house production control must be inspected by an external supervision regularly, but at least once a year.

For the external supervision, the Guidelines Concerning the Proof of Conformity of Flame-Retardant Building Materials (fire classification DIN 4102-B1)⁴⁾ in the applicable version shall apply.

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³⁾ DIN 18 200 “Proof of Conformity for Construction Products - In-house Production Control and Certification of Products” version May 2000 is to be used.

⁴⁾ The „Guidelines Concerning the Proof of Conformity of Flame-Retardant Building Materials (fire classification DIN 4102-B1) after a General Building Authority Approval must be published in the official newsletter of the German Institute for Civil Engineering (“Mitteilungen” des Deutschen Instituts für Bautechnik).

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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MPA BRAUNSCHWEIG

Page 6 | General Building Authority Test Certificate no. P-3574/850/12-MPA BS of
05/23/2017



In the context of the external supervision, an initial testing of the construction product must be carried out. During the external supervision, samples for random inspections must be taken. Sampling and inspection shall be subject to the respective recognized supervision body.

The results of the certification and of the external supervision must be retained for at least five years. They must be submitted by the certification body or the supervision board to the competent supreme building authority upon request.

3 Provisions concerning the application

- 3.1 The fire protection product is applied as an aqueous solution by spraying, submerging and squeezing or spinning on cellulose fiber fabric with a weight per area unit of ≥ 50 g/m² in a "dry-in-wet" procedure.
At a pick-up of 80 %, a quantity of > 150 g/l of "KAPPAFLAM CFP" is needed on the cellulose fiber fabric to be equipped.
The dry pick-up per weight unit of the fabric must be ≥ 330 g/kg.
- 3.2 The application procedure must be submitted to the user by the applicant in writing in accordance with the test certificate mentioned in section 2.3.
- 3.3 The fabric equipped with the fire protection product must only be used in closed rooms without any influence of humidity. The persistence of the fire protection equipment against washing, dry-cleaning or weathering has not been proved.
- 3.4 The proof of the flame-retardant property is only valid for equipped cellulose fiber fabrics arranged with a distance of > 40 mm to laminar building materials.

4 Information about legal remedies

Opposition against this decision can be filed within one month after notification with Materialprüfanstalt für das Bauwesen, Braunschweig.

[Signature]
Senior civil servant ["ORR"]
Dr.-Ing. G. Blume
Head of test body

[ROUND SEAL:] #3
MPA BRAUNSCHWEIG

[Signature]
by order: Technical officer
K. Feustel-Prause
Official in charge

Braunschweig, May 23, 2017



Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: B1

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CERTIFICATION

As a translator for the English language, publicly commissioned and sworn by the President of the Regional Court [Landgericht] of Aschaffenburg, Germany, I hereby certify:
This foregoing is a true and complete translation of the document written in German that has been submitted to me in the original.

Mömlingen, June 1, 2017

BEGLAUBIGUNG

Als vom Präsidenten des Landgerichts Aschaffenburg öffentlich bestellte und allgemein beeidigte Übersetzerin für die englische Sprache bestätige ich:
Diese Übersetzung der mir im Original vorgelegten, in deutscher Sprache abgefassten Urkunde ist richtig und vollständig.

Gabriele Lindner-Partholl



Gabriele Lindner-Partholl

SPECIMEN

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003

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Exova Warringtonfire, Frankfurt
Industriepark Höchst, C369
Frankfurt am Main
D-65926
Germany

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F : +49 (0) 69 305 17071
E : EBH@exova.com
W : www.exova.com



Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

Auftragsdatum: 13.12.2011
Datum der Probenahme: no official taking out of the specimen from a representative of the Exova Warringtonfire, Frankfurt
Eingang der Proben: 13.12.2011
Datum der Prüfungen: 11.01.2012

Auftrag:

Determination of the ignition time according to nach EN 1101 (ISO 6940) and of the vertical flame spread according to DIN EN 13772 with classification to DIN EN 13773.

Description / designation of the test object

Textile sample designated as "article (Schleier-) Nessel- and Dekomolton "

Description of the relevant test procedure

EN 1101

DIN EN 13772

DIN EN 13773 (Mai 2003)

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003

J&C Joel 

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Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

page 2 from 6

1. Description of the test material

1.1 Details of the customer:

Textile sample designated as "article (Schleier-) Nessel and Dekomolton"

Construction: Cotton flame retardant treated

Application area: Stage area and deko area

1.2 At the specimen preparation from Exova Warringtonfire, Frankfurt determined values:

Flame retardant treated cotton fabric

Colour: black

Thickness: 0,5 mm (average)

Square weight: 204 g/m² (average)

Testing after clima storing 23°C and 50% rel. Luftfeuchte.

SPECIMEN

05.04.2012

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003



Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

page 3 from 6

2.1.1 Test sheet according to EN 1101 (ISO 6940)

(Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 1 - 20 s

Specimen no.		1	2	3	4	5	6	7	8
Test direction	L/Q	L	L	L	L	Q	Q	Q	Q
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	1	2	3	4	1	2	3	4
Total burn time	[s]	1	2	3	4	1	2	3	4
After flame time	[s]	0	0	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming ≥ 5 [s]	yes/no	no							
Reaching of the upper edge of the specimen	yes/no	no							
Reaching the side edges	yes/no	no							
Drop of from sample parts*		-	-	-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-	-	-
Ignition	yes/no	no							

If not the case, - L = length Q = width S = surface E = edge

Remarks: none

05.04.2012

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003

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Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

page 4 from 6

2.1.2 Test sheet according to EN 1101 (ISO 6940)

(Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 1 - 20 s

Specimen no.		9	10	11	12	13	14	15	16
Test direction	L/Q	L	L	L	L	Q	Q	Q	O
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	5	10	15	20	5	10	15	20
Total burn time	[s]	5	10	15	20	5	10	15	20
After flame time	[s]	0	0	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming \geq 5 [s]	yes/no	no							
Reaching of the upper edge of the specimen	yes/no	no							
Reaching the side edges	yes/no	no							
Drop of from sample parts*		-	-	-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-	-	-
Ignition	yes/no	no							

If not the case, - L = length Q = width S = surface E = edge

Remarks: none

05.04.2012

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003



Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

page 5 from 6

2.2.1 Test results according to DIN EN 13772:
 (Determination of the vertical flame spread)

Impact time of the radiator: 30s

Ignition time: 10 s

Specimen no.		1	2	3	4	5	6
Test direction	L/Q	L	L	L	Q	Q	Q
Kind of ignition	S/E	E	E	E	E	E	E
Ignition time	[s]	10	10	10	10	10	10
Total burn time	[s]	18	20	17	18	15	15
After flame time	[s]	8	10	7	8	5	5
After glow time	[s]	0	0	0	0	0	0
Reaching the 1. mark in	[s]	-	-	-	-	-	-
Reaching the 2. mark in	[s]	-	-	-	-	-	-
Reaching the 3. mark in	[s]	-	-	-	-	-	-
Flame spread v1	[mm/min]	0	0	0	0	0	0
Flame spread v2	[mm/min]	0	0	0	0	0	0
Flame spread t v3	[mm/min]	0	0	0	0	0	0
Separating of sample parts*		-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-
Destroyed area	length [mm]	170	160	180	170	180	170
Destroyed area	width [mm]	30	30	40	40	30	40

If not the case, - L = length Q = width S = surface E = edge

Remarks: none

05.04.2012

Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13773: 2003

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Testing. Advising. Assuring.

Test report No. 2011-2508-1 issued 12.01.2012

page 6 from 6

3. Classification:

The in chapter 1 described material fulfills the requirements of the class 1 according to DIN EN 13773.

Besonderer Hinweis

The fire test result is only valid for the in chapter 1 described material.

In the composition with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the above classification is not any longer valid. The burning behaviour in composition with other materials has to be tested separately.

This test report replaces the translation of the test report 2011-2508 from January 12th 2012 (date of signature) which is invalid from now on

Frankfurt, 04th April 2012



P. Scheinkönig
Tester in Charge



Dipl.-Ing. T. Zachäus
Laboratory Supervisor

The results of the tests relate only to the behaviour of the test specimen which is designated in chapter one.
Test reports are only allowed to be published or reproduced, not changed in form and tenor without permission of the Exova Warringtonfire, Frankfurt.
The abridged account of a test report is only allowed with the agreement of the Exova Warringtonfire, Frankfurt.
This test report is a translation of the German version 2011-2508-1 (issued 04.04.2012). In case of doubt only the German version is valid.
The report contains 6 pages.

05.04.2012

Fabric: Molton 2.0
Type: EN13501-1

Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle
Prüfstelle für Feuerlöschmittel und -geräte
DIN EN ISO/IEC 17025: D-PL-17819-01-00
DIN EN ISO/IEC 17065: D-ZE-17819-01-00
DIN EN ISO/IEC 17020: D-IS-17819-01-00
ZLS-GS-0066
Notified Body no. 0767



Klassifizierungsbericht CLASSIFICATION REPORT

Klassifizierung des Brandverhaltens nach DIN EN 13501-1:2010-01
fire classification acc. to DIN EN 13501-1:2010-01

Nr./ no. 20150515/02

1. Ausfertigung
1st execution

SPECIMEN

Prüfmateriale: Dekogewebe / Bühnengewebe mit einer Grammatur von 75 g/m² bis 320 g/m²
Test object: *Decorative fabrics / Stage fabrics with a weight of 75 g/m² to 320 g/m²*

Berichtsumfang: 5 Seiten und 0 Anlagen
This report comprises: *5 pages and 0 annexes*

Hinweis: Der Klassifizierungsbericht wurde zweisprachig (deutsch/englisch) erstellt. In Zweifelsfällen ist der deutsche Wortlaut maßgeblich.
Information: *The classification report is issued bilingual (German and English). In case of doubt, the German wording is valid.*

Veröffentlichungen von Klassifizierungsberichten, auch auszugsweise und Hinweise auf Prüfungen zu Werbezwecken bedürfen in jedem Einzelfalle der schriftlichen Einwilligung der Prüfstelle. Die einzelnen Blätter dieses Klassifizierungsberichtes sind mit dem Firmenstempel der MPA Dresden GmbH versehen.
Publications of classification reports and information on tests for publicity purposes require the written approval of the institution in every isolated case. Every page of this report is stamped with the seal of the test institution.



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Fabric: Molton 2.0
Type: EN13501-1

MPA Dresden GmbH

Klassifizierungsbericht (classification report) Nr./ no. 20150515/02

1 Einführung

Introduction

Am 17.04.2015 beauftragten Sie uns mit der Ausfertigung eines Klassifizierungsberichtes zum Nachweis des Brandverhaltens nach DIN EN 13501-1:2010-01¹.

On 2015-04-17 we were requested to issue a classification report for reaction to fire performance acc. to DIN EN 13501-1:2010-01¹.

2 Angaben zum klassifizierten Bauprodukt

Details of classified product

2.1 Art und Verwendungszweck

Nature and end use application

Die Klassifizierung in diesem Klassifizierungsbericht gilt für das klassifizierte Bauprodukt für die folgenden Anwendungsbereiche: Dekoration (75 g/m²) und Vorhänge, Bühnendekoration, Verdunklung (320 g/m²)

Classification given in this classification report is valid the construction product's following and use application: decoration (75 g/m²) and curtains, stage decoration, dimm-out (320 g/m²)

Werden nachträglich Anstriche, Beschichtungen o. ä. aufgebracht, ist ein neuer Nachweis des Brandverhaltens für diesen Anwendungsfall erforderlich.

If the product is furnished with any sort of coatings its reaction to fire performance is to be tested and classified separately for this end use application.

2.2 Beschreibung des Bauproduktes

Description of the construction product

Das Bauprodukt wird in den im Abschnitt 3 aufgeführten Prüfberichten, die der Klassifizierung zu Grunde liegen, vollständig beschrieben.

The product is fully described in the test reports scheduled in clause 3 underlying this classification.

Handelsbezeichnung: Dekogewebe / Bühnengewebe mit einer Grammatur von 75g/m² bis 320g/m²
Trade name: Decorative fabrics / Stage fabrics with a weight of 75g/m² to 320g/m²

Materialbasis: 100 % Baumwolle
Material base:

Flächengewicht*: (87,4 - 334,3) g/m²
area weight:*

Dicke *: (0,3 - 1,6) mm
*Thickness *:*

* Werte von der Prüfstelle ermittelt/ *values measured from the test institute*

¹ DIN EN 13501-1:2010-01

Klassifizierung von Bauprodukten und Bauarten zu ihrem Brandverhalten – Teil 1: Klassifizierung mit den Ergebnissen aus den Prüfungen zum Brandverhalten von Bauprodukten



Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13501-1

MPA Dresden GmbH

Klassifizierungsbericht (classification report) Nr./ no. 20150515/02

3 Prüfberichte und Prüfergebnisse für die Klassifizierung Test reports and test results in support of this classification

3.1 Prüfberichte Test reports

Name des Prüflabors <i>Name of laboratory</i>	Auftraggeber <i>client</i>	Nr. des Prüfberichtes <i>test report number</i>	Prüfverfahren <i>Test method</i>
MPA Dresden GmbH		20150515/03	DIN EN ISO 11925-2:2011-02 ²
MPA Dresden GmbH		20150515/04	DIN EN 13823:2010-12 ³

3.2 Prüfergebnisse Test results

Prüfverfahren <i>Test method</i>	Parameter <i>Parameter</i>	Anzahl an Prüfungen <i>Number of tests</i>	Prüfergebnisse <i>Results</i>	
			Mittelwert <i>Mean</i>	Parameter <i>Parameter</i>
DIN EN 13823:2010-12	FIGRA _{0,2 MJ}	7	463,11	-
	FIGRA _{0,4 MJ} ≤ 250 W/s		143,80	J
	THR _{600s} ≤ 15 MJ		0,898	J
	SMOGR _A ≤ 30 m ² /s ²		11,10	J
	TSP _{600s} ≤ 50 m ²		23,09	J
	LFS < Rand des Probekörpers <i>LFS < border of the sample</i>		ja <i>yes</i>	J
	brennendes Abfallen/ Abtropfen <i>Flaming droplets/particles</i>		nein <i>no</i>	J
DIN EN ISO 11925-2:2011-02 Flächen- / Kantenbeflammung <i>Surface/ edge flame attack</i> 30s Beflammung / <i>exposure</i> brennendes Abtropfen/Abfallen <i>Flaming droplets/particles</i>	F _s ≤ 150 mm	48	ja <i>yes</i>	J
	Entzündung des Filterpapiers <i>ignition of filter paper</i>		nein <i>no</i>	J

² DIN EN ISO 11925-2:2011-02

Prüfungen zum Brandverhalten – Entzündbarkeit von Produkten bei direkter Flammwirkung – Teil 2: Einzelflammentest

³ DIN EN 13823:2010-12

Prüfungen zum Brandverhalten von Bauprodukten – Thermische Beanspruchung durch einen einzelnen brennenden Gegenstand für Bauprodukte mit Ausnahme von Bodenbelägen



Fabric: Molton 2.0
Type: EN13501-1

MPA Dresden GmbH

Klassifizierungsbericht (classification report) Nr./ no. 20150515/02

4 Klassifizierung und direkter Anwendungsbereich

Classification and direct field of application

Die Klassifizierung erfolgte nach DIN EN 13501-1:2010-01, Abschnitt 11.5
This classification has been carried out in accordance with clause 11.5 of DIN EN 13501-1:2010-01

4.1 Klassifizierung

Classification

Das Produkt „Dekogewebe / Bühnengewebe mit einer Grammaturn von 75 g/m² bis 320 g/m²“ wird nach seinem Brandverhalten wie folgt klassifiziert:
The product “Decorative fabrics / Stage fabrics with a weight of 75 g/m² to 320 g/m²” in relation with the fire behaviour is classified:

C

Die zusätzliche Klassifizierung zur Rauchentwicklung ist:
The additional classification in relation with smoke production is:

s1

Die zusätzliche Klassifizierung zum brennenden Abtropfen/Abfallen ist:
The additional classification in relation with burning droplets/particles is:

d0

Brandverhalten <i>fire behaviour</i>		Rauchentwicklung <i>smoke production</i>		Brennendes Abtropfen <i>burning droplets</i>
C	-	s1	,	d0

Klassifizierung des Brandverhaltens: C – s1, d0
classification of fire behaviour: C – s1, d0

4.2 Anwendungsbereich

Field of application

Die Klassifizierung in Abschnitt 4.1 gilt nur für das im Abschnitt 2 beschriebene Bauprodukt in den geprüften Dicken von (0,3 - 1,6) mm und dem Flächengewicht von (87,4 - 334,3) g/m² sowie für die freihängende Anwendung und alle Farben.
The classification in clause 4.1 is valid solely for the material as described in clause 2 in the tested thickness (0,3 - 1,6) mm and area weight (87,4 - 334,3) g/m² and for the free hanging use and for all colors.



Fire Test Certificate – Specimen

Fabric: Molton 2.0
Type: EN13501-1

J&C Joel 
the inspiration behind the performance

MPA Dresden GmbH

Klassifizierungsbericht (classification report) Nr./ no. 20150515/02

5 Hinweise Information

- 5.1** In Verbindung mit anderen Baustoffen, insbesondere Dämmstoffen/anderen Untergründen, mit anderen Abständen, Befestigungen, Fugenausbildungen/Verbindungen, Dicken- oder Rohdichtebereichen als in Abschnitt 4.2 angegeben, kann das Brandverhalten so ungünstig beeinflusst werden, dass die Klassifizierung in Abs. 4.1 nicht mehr gilt. Das Brandverhalten in Verbindung mit anderen Baustoffen/ anderen Untergründen, Abständen, Befestigungen, Fugenausbildungen/ Verbindungen, Dicken- oder Rohdichtebereichen etc. ist gesondert nachzuweisen.
Used in connection with other materials, especially other substrates/backings, air gaps/voids, types of fixation, joints, thickness- or density-ranges than given in clause 4.2 its performance is likely to be influence this negative, that the given classification in clause 4.1 is no longer valid. Fire performance in connection with other materials, other substrates/backings, air gaps/voids, types of fixation, joints, thickness- or density-ranges, is to be tested and classified separately.
- 5.2** Wird das Bauprodukt mit zusätzlichen Schichten versehen, ist das Brandverhalten dieses Verbundes gesondert nachzuweisen.
If the product is furnished with any additional sort of coatings its fire performance is to be tested and classified separately.
- 5.3** Dieser Klassifizierungsbericht ist keine Typzulassung oder Produktzertifizierung und ersetzt nicht einen gegebenenfalls erforderlichen bauaufsichtlichen Nachweis nach deutschem Baurecht (Landesbauordnung).
This classification report does not represent type approval or certification of product and is in no case a substitute for any required certification according to German building regulations (Landesbauordnung).
- 5.4** Es erfolgte keine Probenahme durch eine dafür anerkannte Stelle.
The sampling was not arranged by a recognised body.
- 5.5** Vom Hersteller wurde keine Erklärung über die Einstufung seines Produktes in ein System des Übereinstimmungsnachweisverfahrens für die CE-Kennzeichnung im Rahmen der Bauproduktenverordnung (BauPVO) abgegeben.
The manufacturer was not issuing a declaration of the classification of the product to a system of conformity verification procedure for the CE-labelling within the construction products regulation (CPR).

Freiberg, den 03.09.2015


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Prüfstellenleiter Brandschutz
Laboratory Manager




Dipl.-Ing. (BA) Meixner
Prüfingenieur
Test Engineer

J&C Joel

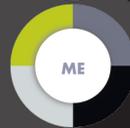
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