Certified translation from the German language

MFPA Leipzig GmbH

Testing, inspection and certification body for
building materials, building products and building systems

Division III - Structural Fire Protection
Dipl.-Ing. Sebastian Hauswaldt

Team 3.1 - Fire behaviour of Building Products
Nick Neumann, M.Sc.
Tel. +49 (0) 341-6582-191
neumann@mfpa-leipzig.de

Classification report no. KB 3.1/16-089-3

Reaction to fire behaviour classification report

from 12 April 2016

1st copy

Client:	TexRa GmbH Schüttendeich 4 42477 Radevormwald Germany
Order:	Fire behaviour classification according to DIN EN 13501-1:2010*
Subject matter:	various knitted polyester fabrics
Date of order:	23 February 2016
Person in charge:	Nick Neumann, M.Sc.

This document consists of 4 pages.

DAkkS
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Approved test centre according to the Landesbauordnung [state building code] (SAC 02) and notified testing laboratory, inspection body and certification body (PÜZ-Stelle) according to the Construction Products Regulation (NB 0800).

Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH (MFPA Leipzig GmbH)

Registered offices: Hans-Weigel-Str. 2b – 04319 Leipzig/Germany
Managing Director: Prof. Dr.-Ing. Frank Dehn
Company Register: District Court Leipzig HRB 17719
VAT ID No.: DE 813200649
Tel.: +49 (0) 341-6582-0
Fax: +49 (0) 341-6582-135

1 Details of the classified product

1.1 General remarks

The building products to be classified are knitted polyester fabrics which are used as displays, ad banners, wall hangings and in exhibition stand construction.

According to the client, these building products are not subject to any harmonised European product standard.

1.2 Description

The building products specified in section 3.3 are described in the reports which are referred to in 2.1 for verification of the classification.

2 Test reports and test results as a basis for the classification

2.1 Reports

Name of laboratory	Client	Report no.	Test method
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/16-089-1 from 12/04/2016	DIN EN ISO 11925-2 Building Rules List A Part 1, Edition 2015/2, enclosure 0.2.3
MFPA Leipzig GmbH	TexRa GmbH	PB 3.1/16-089-2 from 12/04/2016	DIN EN 13823

2.2 Results

Test method and test number	Parameter	Number of tests	Results	
			constant parameters, average value (m)	discrete parameters
DIN EN ISO 11925-2	$F_s \leq 150$mm	12	(-)	concurrent
	No flaming droplet/particles		(-)	concurrent
DIN EN 13823	$FIGRA_{0.2\,MJ}$ [W/s]	3	0	(-)
	$FIGRA_{0.4\,MJ}$ [W/s]		0	(-)
	THR_{600s} [MJ]		0.2	(-)
	SMOGRA [m²/s²]		0	(-)
	TSP_{600s} [m²]		13	(-)
	No lateral flame spread (LFS) to the edge of the sample		(-)	concurrent
	No flaming droplet/particles		(-)	concurrent
	No flaming droplets/particles, > 10 s		(-)	concurrent

(-) not applicable

3 Classification and field of application

3.1 Reference for classification

This classification was carried out in accordance with DIN EN 13501-1:2010.

3.2 Classification

The building products specified in section 3.3 are

classified as follows regarding their reaction to fire behaviour: B

The additional classification regarding the development of smoke is: s1

The additional classification regarding flaming droplets/particles is: d0

The format of the classification of the reaction to fire behaviour for building products except for floor coverings and pipe insulations is:

Fire behaviour		Development of smoke			flaming droplets/particles	
B	-	s	1	,	d	0

i.e. **B-s1, d0**

Reaction to fire behaviour classification: B-s1, d0

3.3 Area of application

This classification is valid for the following product types:

"350FR", "350FRS", "350FRN", "350FRM", "350FRL", "350FRX",
"3118FR", "3118FRS", "3118FRN", "3118FRM", "3118FRL", "3118FRX",
"19FR", "19FRS", "19FRN", "19FRM", "19FRL", "19FRX",
"3166FR", "3166FRS", "3166FRN", "3166FRM", "3166FRL", "3166FRX",
"377FR", "377FRS", "377FRN", "377FRM", "377FRL", "377FRX",
"2157FR", "2157FRS", "2157FRN", "2157FRM", "2157FRL", "2157FRX",
"2191FR", "2191FRS", "2191FRN", "2191FRM", "2191FRL", "2191FRX",
"3152FR", "3152FRS", "3152FRN", "3152FRM", "3152FRL", "3152FRX",
"3158FR", "3158FRS", "3158FRN", "3158FRM", "3158FRL", "3158FRX",
"3154FR", "3154FRS", "3154FRN", "3154FRM", "3154FRL", "3154FRX",
"3160FR", "3160FRS", "3160FRN", "3160FRM", "3160FRL", "3160FRX",
"3151FR", "3151FRS", "3151FRN", "3151FRM", "3151FRL", "3151FRX",
"3172FR", "3172FRS", "3172FRN", "3172FRM", "3172FRL", "3172FRX",
"3154FR", "3154FRS", "3154FRN", "3154FRM", "3154FRL", "3154FRX",
"3179FR", "3179FRS", "3179FRN", "3179FRM", "3179FRL", "3179FRX",
"3149FR", "3149FRS", "3149FRN", "3149FRM", "3149FRL", "3149FRX",
"3139FR", "3139FRS", "3139FRN", "3139FRM", "3139FRL", "3139FRX".

This classification applies to the following product parameters:

- The building products must have the compositions described in section 1.2.
- The building products must be made of 100% polyester.
- The building products must have a thickness between 0.300 ± 0.05 mm and 0.560 ± 0.05 mm.
- The building products must have an area density between 110 g/m² ± 10% and 320 g/m² ± 10%.
- The building products must have a fireproofing material content of at least 5%.
- The building products must be white.
- The building products must be manufactured in a knitting procedure.

The classification applies to the following end-use applications:

- The building products must be used with a distance of at least 80 mm to any adjacent building materials.
- The building products must be fixed in place mechanically.

4 Restrictions

(1) A combination with other building products, especially insulating materials with other gross density ranges than specified in section 3.3, can have an adverse effect on the fire behaviour so that the classification in section 3.2 is no longer valid. The fire behaviour in combination with other building products or for other gross density ranges or thickness ranges must be tested separately.

(2) The classification document is not a type approval or product certification and does not replace a verification according to German building law (*Landesbauordnung* [state building code]), which may be required.

(3) This classification report is valid as long as the product composition or the product design, the raw materials or the production process and the construction regulations or the basis for the evaluation do not change.

The results of the tests refer exclusively to the test items described herein and not to other items of the same variety. This document does not replace any certificate of conformity or usability as defined by the building regulations (national/European).

Leipzig, 12 April 2016

Dipl.-Ing. S. Hauswaldt
Head of Division

N. Neumann, M.Sc.
Head of Laboratory

Authentication

I have examined the German original/photocopy/facsimile and this is a true translation of the same into English.

Barbara Wohanka, registered translator for the English language at the District Court of Landshut, Germany
Geisenhausen, 28 April 2016

Publicly appointed and sworn translator of the English language
Barbara Wohanka
84144 Geisenhausen
Buchmannstr. 9
Germany