



Classification report

Issuing laboratory: Warringtonfire Frankfurt GmbH

Notification number of the test laboratory: NB 1378

Test standard:	Classification of the burning behaviour according to DIN EN 13501-1 (2019-05)
Test sponsor(s):	Heytex Bramsche GmbH
Product(s):	230615 Test: Test according to DIN EN 13501-1, Material: H7812 digitex© skylight B1
Report number:	230615-K1
Version:	1

Quality management

Version	Date	Summary of amendments including reasons	
1	15 August 2023	Description	Initial issue
Name Signature	Prepared by		Authorised by
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*Signed for and on behalf of Warringtonfire Frankfurt GmbH			

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1. Introduction

This report documents the findings of the reaction to fire test of "230421, Test: Test according to DIN EN 13501, Material: H7812 digitex© skylight B1 in accordance with DIN EN 13823: 2023 and DIN EN ISO 11925-2:2020.

Warringtonfire Frankfurt GmbH (Warringtonfire) performed the test on 24.07.2023 at the request of the test sponsor listed in Table 1.

Table 1 Test sponsor details

Entity	Address
Test sponsor	
Heytex Bramsche GmbH	Z.Hd. Marion Blömer Bramsche, Heywinkelstr. 1 49565 Germany

2. Test specimens

The description of the test specimens is detailed in table 2 Unless otherwise specified:

- The information including measurements was provided by the test sponsor.
- All measurements taken by Warringtonfire are clearly identified.

Warringtonfire was commissioned to modify the test specimens so they met the geometric requirements of the test standard.

Table 2:

	Description of the client	Description of the test laboratory
Product designation	H7812 digitex© skylight B1	-
Trade name	H7812 digitex© skylight B1	-
Sample material	Tarpaulin	fabric coated on one side
Kind of material	coated PES	
Method of production	coated on one side	-
Total thickness	0,7 mm	approx. 0,7 mm
Surface weight	175 g/m ²	179,5 g/m ²
Colour	white	white
Flame retardants	yes	-
Manufacturer	Heytex Bramsche GmbH	-
Type Flame retardants	Phosphonate	-
Content Flame retradants	approx. 5%	-
Test surface	smooth side	smooth side
Application	Sign	-

3. Test procedure

Table 2 details the test procedure for this reaction to fire test.

Table 2 Test procedure

Item	Detail
Test standard	DIN EN 13823 and DIN EN ISO 11925
Supplementary standard	DIN EN 13501-1: 2019
Deviations from the test standard	None
Product standard and/or EAD	The client did not provide an instruction to work in accordance with a product standard.
EGOLF agreements and/or recommendations	
Pre-test conditioning	<p>Test specimens were received on 19.07.2023.</p> <p>Before testing, the test specimens were conditioned in accordance with the requirements of DIN EN 13238: 2010 at a temperature of 23 ± 2 °C and a relative humidity of $50 \pm 5\%$ for a minimum period of 48 hours, until constant mass was achieved.</p>
Sampling / test specimen selection	The test specimens were supplied by the test sponsor. Warringtonfire was not involved in any selection or sampling procedure.
Test face	Smooth surface of the test specimens was exposed to the heating conditioning of the test when the test specimens were mounted in the test position.
Number of replicate tests	3 for DIN EN 13823 and 12 for DIN EN ISO 11925-2
Intended application	Textile construction
Test specimen preparation	The test specimen walls (or wings) were installed in the trolley in accordance with the requirements of section 5.3 of DIN EN 13823: 2020.

Name of test laboratory	Customer	Report to form the basis	Test procedure
Warringtonfire, Frankfurt GmbH	Heytex Bramsche GmbH	230615	DIN EN 13823 (SBI) EN ISO 11925-2 (30s ignition time surface and edge ignition)

2.2 Test results

Test procedures	Parameter / classes	Test results average
DIN EN 13823 (SBI)	FIGRA _{0,2MJ} ≤ 120 [W/s] for class A2 FIGRA _{0,2MJ} ≤ 120 [W/s] for class B	0,00
	FIGRA _{0,4MJ} ≤ 250 [W/s] for class C FIGRA _{0,4MJ} ≤ 750 [W/s] for class D	0,00
	THR _{600s} [MJ] ≤ 7,5 MJ for class A2 THR _{600s} [MJ] ≤ 7,5 MJ for class B THR _{600s} [MJ] ≤ 15 MJ for class C THR _{600s} [MJ] no requirement for class D	0,08
	SMOGRA-index ≤ 30 [m ² /s ²] für s1 SMOGRA-index ≤ 180 [m ² /s ²] für s2	0,00
	TSP _{600s} ≤ 50 [m ²] for s1 TSP _{600s} ≤ 200 [m ²] for s2	27,69
	LFS < edge of the specimen for class A2 LFS < edge of the specimen for class B LFS < edge of the specimen for class C	fulfilled
	no burning dripping off/dropping within 600s for class d0	fulfilled
	no burning dripping off/dropping > 10 s within 600s for class d1	-
	burning dripping off/dropping > 10 s within 600s for class d2	-
	DIN EN ISO 11925-2 30s	FS ≤ 150 mm within 60 s for class B, C u. D FS ≤ 150 mm within 20 s for class E
no inflammation of the filter paper within 60 s for class d0		fulfilled
inflammation of the filter paper within 60 s for class d2		-

Explanations of table standing to above:

Figra_{0,2MJ}: Heat release rate with consideration of the THR of threshold value of 0,2MJ [W/s]

Figra_{0,4MJ}: Heat release rate with consideration of the THR of threshold value of 0,4MJ[W/s]

THR_{600s}: Total set free warmth during 600s [MJ]

SMOGRA: Smoke development rate

TSP_{600s}: Total set free smoke quantity during 600s [m²]

LFS: lateral propagation of flames

3.1 Reference

The classification was carried out according to the chapter 11 of DIN EN 13501-1

3.2 Classification

The tested material is incorporated regarding its behaviour in case of fire into the class **B**. Concerning the smoke development, the tested material is incorporated into the class **s1**. Concerning the dripping off behaviour the tested material is incorporated into the class **d0**.

The classification of the tested material reads thus:

B – s1, d0

3.3 Area of application

The is only valid the material described in chapter one, in the tested colour, thickness and surface weight in free hanging arrangement.

The distance to adjacent materials must be ≥ 80 mm.

4 Reservation

This classification report replaces not a possible required type admittance or type certification of the product.

4. Application of test results

4.1 Validity

This document is a translation into English of report No. 230032-K1, originally issued in German. This translated report has been issued under the responsibility of and checked by Warringtonfire Frankfurt GmbH. This translation is issued according to the “Interpretations of the European standard EN ISO/IEC 17025: 2017” which applies to fire test laboratories.

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The test results relate to the behaviour of the test specimens of a product under the conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the results be extrapolated and applied to other products.

Test reports are statements of fact prepared in accordance with the referenced version of the standards stated in Section 3 of this report. Test reports are based upon the information provided to Warringtonfire. Warringtonfire takes no responsibility for the accuracy or completeness of such information.

The results stated in this report apply to the sample as received. Any differences in composition, production process, thickness, density, or colour of the product may significantly affect the performance and will therefore invalidate the application of the test results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the test sponsor. The test sponsor should then obtain appropriate documentary evidence of compliance from Warringtonfire or another notified testing authority. The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test sample as received.

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4.2 Uncertainty of measurement

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurements obtained from a reaction to fire test, it is not possible to provide a stated degree of accuracy of the result.



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