



Confidential Report

Our Ref: 27/06520C/07/24

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.

BTTG™ and Shirley® are trade names of Shirley Technologies Limited

The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.

Our laboratories are accredited to EN ISO/IEC 17025.

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Website: www.bttg.co.uk

Date: 16 August 2024

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Kvadrat High Performance Textiles B.V.

1 Introduction

This classification report defines the classification assigned to **Graphite / KHPT fabric 863** (as described by the sponsor) in accordance with the procedures given in BS EN 13501-1:2018.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1:2018

Sponsor: Kvadrat High Performance Textiles B.V.

Prepared by: BTTG Testing & Certification Ltd

Product name: Graphite / KHPT fabric 863 (Dark Grey)
Graphite / KHPT fabric 863 (Light Grey)

Classification report no.: 27/06520C/07/24

Issue number: 1

Date of issue: 16 August 2024

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2 Details of classified product

2.1 General

The product, **Graphite / KHPT fabric 863** is defined by the client.

2.2 Product description

The product **Graphite / KHPT fabric 863– Colour Reference: (Dark Grey)**, is described below as:-

General description		Rollerblind fabric
Product reference of composite		Graphite / KHPT fabric 863
Name of manufacturer of composite		Kvadrat High Performance Textiles B.V.
Thickness of composite		0,45 mm
Surface	Generic type	Polyester fabric coated with aluminium
	Product reference	
	Name of manufacturer	
	Thickness	
	Density / weight per unit area	
	Colour reference	Dark Grey
	Trade name of flame retardant	
	Generic type of flame retardant	
	Amount of flame retardant	
Substrate	Generic type	80mm air gap between sample and backing board (free standing)
	Product reference	
	Name of manufacturer	
	Thickness	
	Density / weight per unit area	
	Colour reference	
	Trade name of flame retardant	
	Generic type of flame retardant	
	Amount of flame retardant	
Brief description of manufacturing process		A single layer textile of recycled polyester (from textile waste) with 3% openings is one side coated with aluminium, finished with flame-retardant chemicals and one side coloured by transfer printing.
Additional Information		The fabric is used as rollerblind and comes in a collection of several colours. The weight of the product is: 200 g/m2

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2.2 Product Description (continued)

The product **Graphite / KHPT fabric 863– Colour Reference: (Light Grey)**, is described below as:

General description		Rollerblind fabric
Product reference of composite		Graphite / KHPT fabric 863
Name of manufacturer of composite		Kvadrat High Performance Textiles B.V.
Thickness of composite		0,45 mm
Surface	Generic type	Polyester fabric coated with aluminium
	Product reference	
	Name of manufacturer	
	Thickness	
	Density / weight per unit area	
	Colour reference	Light grey
	Trade name of flame retardant	
	Generic type of flame retardant	
	Amount of flame retardant	
Substrate	Generic type	80mm air gap between sample and backing board (free standing)
	Product reference	
	Name of manufacturer	
	Thickness	
	Density / weight per unit area	
	Colour reference	
	Trade name of flame retardant	
	Generic type of flame retardant	
	Amount of flame retardant	
Brief description of manufacturing process		A single layer textile of recycled polyester (from textile waste) with 3% openings is one side coated with aluminium, finished with flame-retardant chemicals and one side coloured by transfer printing.
Additional Information		The fabric is used as rollerblind and comes in a collection of several colours. The weight of the product is: 200 g/m2



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3 Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report reference number	Test method and date Field of application rules and date"
BTTG Testing & Certification Ltd	Kvadrat High Performance Textiles B.V.	27/06520A/07/24	BS EN ISO 11925-2:2020 BS EN 13823:2020+A1:2022
BTTG Testing & Certification Ltd	Kvadrat High Performance Textiles B.V.	27/06520B/07/24	BS EN 13823:2020+A1:2022 (Indicative)

3.2 Results

Reference: Unlit Block Out/KHPT Fabric 890 – Colour Reference: 190 (black)					
Test method and test number		Parameter	No. Tests (specimens)	Results	
				Continuous parameter – mean (m)	Compliance with Class B, s1, d0 parameters
BS EN ISO 11925-2:2020	Face Ignition	FS (mm)	6	<150mm within 60s	Compliant
		Flaming Droplets / particles		No	Compliant
	Edge Ignition	FS (mm)	6	<150mm within 60s	Compliant
		Flaming Droplets / particles		No	Compliant
BS EN 13823:2020+A1:2022		FIGRA _{0.2MJ} (W/s)	3	5.0	Compliant
		FIGRA _{0.4MJ} (W/s)		5.0	
		THR _{600s} (MJ)		0.7	
		LFS to edge		No	
		SMOGRA (m²/s²)		0.9	
		TSP _{600s} (m²)		30.2	
		FDP flaming ≤ 10 s		No	
		FDP flaming > 10 s		No	

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3.2 Results (Continued)

Reference: Unlit Block Out/KHPT Fabric 890 – Colour Reference: 100 (white)				
Test method and test number	Parameter	No. Tests (specimens)	Results	
			Continuous parameter – mean (m)	Compliance with Class B, s1, d0 parameters
BS EN 13823:2020+A1:2022 Indicative	FIGRA _{0.2MJ} (W/s)	1	0.0	Compliant
	FIGRA _{0.4MJ} (W/s)		0.0	
	THR _{600s} (MJ)		0.4	
	LFS to edge		No	
	SMOGRA (m ² /s ²)		0.0	
	TSP _{600s} (m ²)		19.2	
	FDP flaming ≤ 10 s		No	
	FDP flaming > 10 s		No	



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4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with BS EN 13501-1:2018.

4.2 Classification

The product Graphite /KHPT Fabric 863, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	-	d	0

Reaction to fire classification: B s1 d0



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4.3 Field of application

This classification is valid for the following product parameters:

Product: -- Graphite / KHPT fabric 863
Composition: -- A single layer textile of recycled polyester (from textile waste) with 3% openings is one side coated with aluminium, finished with flame-retardant chemicals and one side coloured by transfer printing.
Thickness: -- 0,45 mm
Weight: -- 200g/m²
Colour: -- Applies to all colours

The classification is valid for the following end use applications:


- i) Free hanging, air gap ≥80mm.

5 Limitations

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

Reported by: 

SIGNED BY
G Harvey (Mr),
Fire Technician,



APPROVED BY
A Shute
Section Leader

Enquiries concerning this report should be addressed to Customer Services.