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Title:

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

Product Name:

"Metamark Self Adhesive Vinyl Film"

Report No:

505805

Issue No:

2

Prepared for:

Metamark (UK) Limited
Luneside
New Quay Road
Lancaster
Lancashire
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United Kingdom

Date:

18th May 2023

1. Introduction

This classification report defines the classification assigned to "Metamark Self Adhesive Vinyl Film", a family of self-adhesive film products, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The products, "Metamark Self Adhesive Vinyl Film", are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The products, "Metamark Self Adhesive Vinyl Film", are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A polyvinyl chloride (PVC) film adhered to plasterboard substrate
Family reference		"Metamark Self Adhesive Vinyl Film"
Individual product references		"M7 Series, MD5 Series, MD3 Series, MDi Series, MT Series, MG700 Series, MG300 Series, MGi Series, M4 Series, MD80 Series, MG80 Series, MD100 Series, MG100 Series, MDP Series"
Name of manufacturer		Metamark UK
Thickness of overall composite including substrate		12.55mm (measured by Warringtonfire)
Weight per unit area of overall composite including substrate		10.71kg/m^2 (determined by Warringtonfire)
Overall thickness of self adhesive film		Between 90 and 100 microns (all colours) Between 120 and 130 microns (white only)
Overall weight per unit area of self adhesive film		125g/m^2 (all colours) 145g/m^2 (white only)
Film	General description	Polyvinyl chloride (PVC)
	Component reference	"Self Adhesive Vinyl Film"
	Specific thickness references	"70mic – Solvent Acrylic" and "100mic – Solvent Acrylic"
	Detailed description	See Note 1 below
	Name of manufacturer	See Note 1 below
	Thickness	Between 70 and 80 microns (all colours) 100 microns (white only)
	Weight per unit area	105g/m^2
	Colour (as tested)	Black, White and Red in matt or gloss finish
	Flame retardant details	See Note 2 below

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Adhesive	General description	100% Solvent based acrylic or Solvent free acrylic based
	Product reference	See Note 1 below
	Detailed description	See Note 1 below
	Name of manufacturer	See Note 1 below
	Thickness	20 microns
	Weight per unit area	See Note 1 below
	Colour reference	See Note 1 below
	Colour	Clear
	Flame retardant details	See Note 2 below
Brief description of manufacturing process		Transfer coating on reel to reel basis
Mounting and fixing details		The specimens were tested applied to a 12.5mm thick paper faced plasterboard substrate as per EN 13238: 2010 as described below.
Substrate	General description	Paper faced plasterboard
	Product reference	"Paper Faced Plasterboard"
	Name of manufacturer	Gyproc
	Thickness	12.5mm
	Density	800kg/m³
	Flame retardant details	See Note 3 below

Note 1: The sponsor was unwilling to provide this information.

Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 3: The sponsor was unable to provide this information.

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Metamark (UK) Limited	Formal: 518694 (Issue 2) Indicative: 508317 (Issue 5), 515448 (Issue 3), 515450 (Issue 3), 515452 (Issue 3), 515453 (Issue 3), 515455 (Issue 3), 515451 (Issue 3), 515449 (Issue 3), 515454 (Issue 3)	EN ISO 11925-2: 2020
Warringtonfire	Metamark (UK) Limited	Formal: 549412, 549419 Indicative: 549405, 549413, 549414, 519416, 549417, 549418, 549420	EN 13823: 2020 + A1: 2022
Warringtonfire	Metamark (UK) Limited	505804 (Issue 2)	EN 15725:2023 and EN/TS 15117:2005

3.2 Test results

Test method & test number	Parameter	No. tests	Report	Results	
				Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F_s	6	518694 (I2)	-	Compliant (≤ 40 mm)
		1	508317 (I5)	-	Compliant (Nil mm)
		1	515448 (I3)	-	Compliant (≤ 40 mm)
		1	515450 (I3)	-	Compliant (Nil mm)
		1	515452 (I3)	-	Compliant (≤ 30 mm)
		1	515453 (I3)	-	Compliant (≤ 30 mm)
		1	515455 (I3)	-	Compliant (≤ 30 mm)
		1	515451 (I3)	-	Compliant (Nil mm)
		1	515449 (I3)	-	Compliant (Nil mm)
		1	515454 (I3)	-	Compliant (≤ 30 mm)
	Flaming droplets/ particles	6	518694 (I2)	-	Compliant
		1	508317 (I5)	-	Compliant
		1	515448 (I3)	-	Compliant
		1	515450 (I3)	-	Compliant
		1	515452 (I3)	-	Compliant
		1	515453 (I3)	-	Compliant
		1	515455 (I3)	-	Compliant
		1	515451 (I3)	-	Compliant
		1	515449 (I3)	-	Compliant
		1	515454 (I3)	-	Compliant

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EN ISO 11925-2 (30s exposure – edge)	F_s	6	518694 (I2)	-	Compliant (≤ 30 mm)
		1	508317 (I5)	-	Compliant (≤ 30 mm)
		1	515448 (I3)	-	Compliant (≤ 20 mm)
		1	515450 (I3)	-	Compliant (≤ 20 mm)
		1	515452 (I3)	-	Compliant (≤ 20 mm)
		1	515453 (I3)	-	Compliant (≤ 30 mm)
		1	515455 (I3)	-	Compliant (≤ 20 mm)
		1	515451 (I3)	-	Compliant (≤ 30 mm)
		1	515449 (I3)	-	Compliant (≤ 30 mm)
		1	515454 (I3)	-	Compliant (≤ 20 mm)
	Flaming droplets/ particles	6	518694 (I2)	-	Compliant
		1	508317 (I5)	-	Compliant
		1	515448 (I3)	-	Compliant
		1	515450 (I3)	-	Compliant
		1	515452 (I3)	-	Compliant
		1	515453 (I3)	-	Compliant
		1	515455 (I3)	-	Compliant
		1	515451 (I3)	-	Compliant
		1	515449 (I3)	-	Compliant
		1	515454 (I3)	-	Compliant
EN 13823	FIGRA $_{0.2MJ}$	3	549412	92 W/s	-
		3	549419	114 W/s	-
		1	549405	111 W/s	
		1	549413	64 W/s	-
		1	549414	97 W/s	-
		1	549416	92 W/s	-
		1	549417	84 W/s	-
		1	549418	68 W/s	-
		1	549420	73 W/s	-

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EN 13823 continued	FIGRA $_{0.4MJ}$	3	549412	31 W/s	-
		3	549419	50 W/s	-
		1	549405	22 W/s	
		1	549413	0 W/s	-
		1	549414	0 W/s	-
		1	549416	44 W/s	-
		1	549417	37 W/s	-
		1	549418	0 W/s	-
		1	549420	24 W/s	-
	THR $_{600s}$	3	549412	1.0 MJ	-
		3	549419	1.3 MJ	-
		1	549405	1.0 MJ	
		1	549413	0.7 MJ	-
		1	549414	1.1 MJ	-
		1	549416	1.0 MJ	-
		1	549417	1.1 MJ	-
		1	549418	1.1 MJ	-
		1	549420	1.0 MJ	-
	LFS	3	549412	-	Compliant
		3	549419	-	Compliant
		1	549405	-	Compliant
		1	549413	-	Compliant
		1	549414	-	Compliant
		1	549416	-	Compliant
		1	549417	-	Compliant
		1	549418	-	Compliant
		1	549420	-	Compliant
	SMOGRA	3	549412	8 m^2/s^2	-
		3	549419	0 m^2/s^2	-
		1	549405	0 m^2/s^2	
		1	549413	0 m^2/s^2	-
		1	549414	0 m^2/s^2	-
		1	549416	0 m^2/s^2	-
		1	549417	0 m^2/s^2	-
		1	549418	0 m^2/s^2	-
		1	549420	0 m^2/s^2	-

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EN 13823 continued	TSP_{600s}	3	549412	45 m^2	-
		3	549419	36 m^2	-
		1	549405	30 m^2	
		1	549413	34 m^2	-
		1	549414	33 m^2	-
		1	549416	37 m^2	-
		1	549417	41 m^2	-
		1	549418	33 m^2	-
		1	549420	28 m^2	-
	Fall of Flaming Droplet/Particle?	3	549412	-	Compliant
		3	549419	-	Compliant
		1	549405	-	Complaint
		1	549413	-	Compliant
		1	549414	-	Compliant
		1	549416	-	Compliant
		1	549417	-	Compliant
		1	549418	-	Compliant
		1	549420	-	Compliant
	Flaming of Fallen Particle Exceeding 10s?	3	549412	-	Compliant
		3	549419	-	Compliant
		1	549405	-	
		1	549413	-	Compliant
		1	549414	-	Compliant
		1	549416	-	Compliant
		1	549417	-	Compliant
		1	549418	-	Compliant
		1	549420	-	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1: 2018, EN 15725:2023 and EN/TS 15117:2005.

4.2 Classification

The products, "Metamark Self Adhesive Vinyl Film", a family of self-adhesive film products, in relation to their reaction to fire behaviour are classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	**-**	**s**	**1**	**,**	**d**	**0**

i.e. B – s1 , d0

Reaction to fire classification: B – s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications applied to any substrate with a density equal to or greater than 525kg/m^3, having a minimum thickness of 12mm and a fire performance of A2-s1, d0 or better.

ii) Product installed utilising inherent self-adhesive backing of solvent based acrylic or solvent free acrylic as described, at an application thickness of 20 microns.

This classification is also valid for the following product parameters:

Film thickness	70 microns for all colours Between 70 and 100 microns for white colour only
Film weight per unit area	No variation allowed
Film colour	All colours for 70 microns product White colour only for 100 microns product
Adhesive backing	Solvent based acrylic adhesive or solvent free acrylic adhesive
Adhesive thickness	20 microns (No variation allowed)
Adhesive application rate	No variation allowed
Use of flame retardants	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed
Joints	No joints allowed

5. Limitations

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

SIGNED

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Claire Lawrence
Product Assessor
Technical Department

APPROVED

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Stacey Deeming
Principal Product Assessor
Technical Department
on behalf of Warringtonfire

Issue No: 2	Re-issue Date: 02/06/2025
Revised By: T. Deluce	Authorised By: S. Deeming
Reason for Revision: This document replaces issue 1 (dated 18th May 2023) of the same number which has been withdrawn. Report amended to reflect new supporting EN 13823 test evidence following the re-testing of a product sample. The test evidence from the original product test was found to have been affected by a calibration issue, which required a sample of the product to be re-tested.	

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