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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

"Lumex A – Coloured"

Report No:

WF 338900

Issue No:

1

Prepared for:

Foamalite Limited
Loch Gowna
Co. Cavan
Ireland

Date:

19th March 2014

UKAS TESTING
0249

1. Introduction

This classification report defines the classification assigned to “Lumex A - Coloured”, a family of polyethylene terephthalate products, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “Lumex A - Coloured”, a family of polyethylene terephthalate products, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Lumex A - Coloured”, a family of polyethylene terephthalate products, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Generic type	Polyethylene terephthalate
Product reference	“Lumex A - Coloured”
Name of manufacturer	Foamalite
Thickness	1mm to 3mm (stated by sponsor)
Density	1.33g/cm^3 (stated by sponsor) 1.34g/cm^3 (determined by **Exova Warringtonfire)**
Colour reference	White or Opal
Flame retardant details	**See Note 1 below**
Mounting and fixing details	The specimen was tested with the maximum depth airgap between the reverse face and the calcium silicate substrate (as specified in EN 13238: 2010)
Brief description of manufacturing process	Extrusion. The material enters the throat of the cylinder on to the flights of a rotating screw and travels through a heated cylinder, during this process the material is compressed to remove any remaining moisture or volatiles and mix the components. The material is then filtered and pumped through the rest of the melt pipes before passing through the feed-block and die. The cooled sheet is pulled down the line by a double set of rubber coated rolls and pushes it through the sizing saws. The required size of the sheet is achieved by the use of longitudinal circular saws for edge trimming and a cross cut circular saw for the required length.

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product.

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
Exova warringtonfire	Foamalite Limited	WF 338153	EN ISO 11925-2
Exova warringtonfire	Foamalite Limited	WF 338149, 338150, 338151	EN 13823
Exova warringtonfire	Foamalite Limited	WF 338901	EN/TS 15117

3.2 Test results

Test method & test number		Parameter	No. tests	Results	
				Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2	30s exposure - surface	F_s	6	Nil	Compliant
		Flaming droplets/ particles		None	Compliant
	30s exposure – edge	F_s	6	29.2	Compliant
		Flaming droplets/ particles		None	Compliant
EN 13823		FIGRA $_{0.2MJ}$	**Formal test average**	0.00	Compliant
			Indicative 1	0.00	
			Indicative 2	0.00	
		FIGRA $_{0.4MJ}$	**Formal test average**	0.00	Compliant
			Indicative 1	0.00	
			Indicative 2	0.00	
		THR $_{600s}$	**Formal test average**	0.32	Compliant
			Indicative 1	0.03	
			Indicative 2	0.35	
		LFS	**Formal test average**	None	Compliant
			Indicative 1	None	
			Indicative 2	None	
		SMOGRA	**Formal test average**	0.00	Compliant
			Indicative 1	0.00	
			Indicative 2	0.00	
		TSP_{600s}	**Formal test average**	2.04	Compliant
			Indicative 1	0.00	
			Indicative 2	3.59	

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1: 2009.

4.2 Classification

The product, “Lumex A - Coloured”, a family of polyethylene terephthalate products, in relation to its reaction to fire behaviour is 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 used over any substrate with a density equal to or greater than 870kg/m^3, having a minimum thickness of 12mm and a fire performance of A2 or better (excluding paper faced gypsum plasterboard).

ii) Construction applications installed with an air gap.

This classification is also valid for the following product parameters:

Product thickness	1mm to 3mm
Product density	No variation allowed
Product colour	White or Opal
Product composition	No variation allowed
Product construction	No variation allowed

SIGNED

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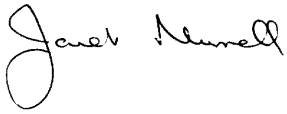
Matthew Dale
Certification Engineer

APPROVED



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Janet Murrell
Technical Manager
on behalf of **Exova warrington**fire