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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2007

Sponsor:

Polygal Plastics Industries Ltd., Kibbutz Gazit 1934000, Israel

Prepared by:

"Center for Testing and European Certification" LTD 2 Industrialna Street, Stara Zagora Bulgaria

Notified body No:

1871

Product name:

Polygal polycarbonate multiwall sheets

Classification report Nº: 1871-CPR-RtF-349

Issue number:

01

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This classification report consists of 5 pages and may only be used or reproduced in its entirety.



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1 Introduction

This classification report defines the classification assigned to *Polygal polycarbonate multiwall sheets* in line with the procedures given in EN 13501-1:2007+A1:2009

2 Details of classified product

2.1 General

The product, *Polygal polycarbonate multiwall sheets* is defined as transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in walls, roofs and ceilings in accordance with EN 16153. The product is manufactured from: Polygal Plastics Industries Ltd., Kibbutz Gazit 1934000, Israel; Panchim, Stara Zagora, Bulgaria; Polygal Vostok, Kurovskoe, Russia; Polygal Inc, Charlotte NC, USA; Polygal Sud, Casa Blanca, Chile

2.2 Product description

The product, *Polygal polycarbonate multiwall sheets* is described below and in the test report provided in support of classification listed in clause 3.1.

Product description:

The product Polygal polycarbonate multiwall sheets is a flat extruded PC sheet with two parallel outside walls and internal parallel walls and with symmetrical in-plan cross-section. The sheets are made with 2-7 layers, covered with UV absorber. The tested samples were with 4 mm and 32 mm thicknesses, colors – ice, bronze and clear and thicknesses 800 kg/m² and 3800 kg/m².

3 Test reports and test results in support of classification.

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports	Test method / extended application rules & date
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	Polygal Plastics Industries Ltd., Israel	1420599/27.05.2019	BDS EN ISO 11925-2:2011
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	Polygal Plastics Industries Ltd., Israel	1420598/27.05.2019	BDS EN 13823:2010+A1:2015





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Test method and	Parameter	No. tests	Results		
test number	u 6.		Continuous parameter - mean (m)	Compliance with parameters	
BDS EN ISO 11925- 2:2011	Fs		Nil		
(30s exposure surface) For samples with 32 mm thickness and color ice	flaming droplets/particles	6	None	Compliant	
BDS EN 13823:2010+A1:2015	FIGRA 0.2MJ LFS THR 600s		4.8 (-) 0.2	Compliant	
For sample with 4mm thickness and color	SMOGRA TSP _{600s}	1	1.1 14.0	Compliant	
ice	flaming droplets/particles		No	Compliant	
BDS EN 13823:2010+A1:2015	FIGRA 0.2M3 LFS THR 600s		26.6 (-) 1.1	Compliant	
For samples with 4 mm thickness and	SMOGRA TSP _{600s}	i	0.0	Compliant	
color bronze	flaming droplets/particles		No	Compliant	
BDS EN 13823:2010+A1:2015	FIGRA _{0.2MJ} LFS THR _{600s}		43.6 (-) 4.3	Compliant	
For samples with 32 mm thickness and	SMOGRA TSP _{600s}	1/1/2	12.5 130.0	Compliant	
color bronze	flaming droplets/particles		No	Compliant	
BDS EN 13823:2010+A1:2015	FIGRA _{0.2M} J LFS THR _{600s}		57.7 (-) 5.8	Compliant	
For samples with 32 mm thickness and	SMOGRA TSP _{600s}	1	17.9 141.6	Compliant	
color clear	flaming droplets/particles		No	Compliant	





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,	FIGRA 0.2MJ		0.0		
BDS EN	LFS		(-)	Compliant	
13823:2010+A1:2015	THR 600s		0.1		
For samples with 4	SMOGRA	1	0.0	Compliant	
mm thickness and	TSP _{600s}		21.2	Compliant	
color clear	flaming		No	Compliant	
	droplets/particles		No	Compliant	
	FIGRA 0.2MJ		56.7		
BDS EN	LFS		(-)	Compliant	
13823:2010+A1:2015	THR 600s		5.4		
For samples with 32	SMOGRA	3	28.9	Compliant	
mm thickness and	TSP _{600s}		261.1	Compliant	
color ice	flaming droplets/particles		No	Compliant	
	uropiets/particles				

4 Classification and field of application

4.1 Reference of classification

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

4.2 Classification

The product, *Polygal polycarbonate multiwall sheets* in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s3

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

d0

The format of the reaction to fire classification for construction products excluding floorings and products for thermal insulation of pipes is:

Fire Behaviour		Smoke Production			Flaming	Droplets
В	-	S	3	,	d	0

Reaction to fire classification: B - s3, d0





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4.3 Field of application

This classification is valid for the following end use conditions:

Polygal polycarbonate multiwall sheets are used for internal and external walls, roofs and ceilings.

This classification is valid for the following product parameters:

- Thickness: from 4 mm to 32 mm
- Density: from 800 kg/m² to 3800 kg/m²
- Type of cover UV absorber
- Composition of components not allowed amendment
- Colour any colours

5 Limitations

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

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Regulation (EU) No 305/2011.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is claimed to be relevant to the samples tested and that will provide for their traceability

SIGNED:

Katya Boycheva

Specialist testing and quality

APPROVED:

Hristina Angelova Head of laboratory

on behalf of: CTEC LTD







