Project number: 4790576335

CLASSIFICATION REPORT

On (product): Polymer Panel with
Fire retardant coating (FPCC)

In accordance with:

EN 13501-1: 2018
Reaction to Fire – Fire classification of construction products and building elements

On behalf of:

The Good Plastic Company International Limited
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1. Introduction

This classification report defines the classification assigned to the Polymer panel with FPCC coating, in accordance with the procedures given in BS EN 13501-1: 2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

2. Details of classification product

2.1 General

The Polymer panel with FPCC coating is defined as a flooring product

2.2 Product description

The Polymer panel with FPCC coating is fully described in the test report provided in support of classification is detailed in clause 3.1.

General product description		Polymer Plastic Panel applied with Fire retardant coating namely FPCC
Product reference		FPCC Coating product
Manufacture's name of product		TM Polygood (stated by the sponsor)
Thickness of composite (mm)		10 mm (Determined by UL International Germany GmbH) 10 mm (Stated by sponsor)
Weight per unit area (kg/m^2)		10.865 Kg/m^2 (Determined by UL international Germany GmbH) 11 Kg/m^2 (Stated by sponsor)
Density (kg/m^3)		1086.56 Kg/m^3 (Determined by UL International Germany GmbH) 1050 kg/m^2 (Stated by sponsor)
Coating	**Generic type**	Fireproof coating
	Product Reference	"Fire Poly FPCC"
	Name of manufacturer	Flame Safe Chemical Corporation, Inc.
	Colour reference	"Transparent"
	Number of coats	Six
	Thickness per coat	**Note 1**
	Application method	Apply with sprayer head held at 8 to 12 inches from surface.
	Flame retardant details	Non-volatile, Good bacterial resistance, None toxic, good impact resistance.
	Curing process per coat	Allow for complete drying between each coat. Drying time depends on ambient temperature and humidity.
Plastic	**Generic type**	Plastic panel
	Product Reference	"Polygood FPCC"
	Name of manufacturer	LLC Good Plastic Company Ukraine
	Colour reference	"White"
	Curing process per coat	Allow for complete drying between each coat. Drying time depends on ambient temperature and humidity conditions.
Manufacturers process description		Plastic layers are put together and layered into the hot press machine, where the material is melted together to set and becoming a plastic sheet, then the sheet coating process starts. With using of a special chamber or room the sheet covers with the coats according to operation procedures.

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

3. Test reports in support of classification

3.1 Summary of test reports

Name of laboratory	Name of sponsor	Test reports/Summary report Numbers	Test method
UL International Germany GmbH	The Good Plastic Company Ukraine	4790576335-01b	EN ISO 11925-2
UL International Germany GmbH	The Good Plastic Company Ukraine	4790576335-01c	EN ISO 9239-1

3.2 Results

Test Method	Parameter	Number of Tests	Results	
			Continuous Parameter – mean (m)	Compliance with parameters
EN ISO 9239-1	Critical flux (CHF and/or HF -30) (kW/m^2)	3	≥ 10.9	Complaint
	Smoke (% MIN)		210.09 % min	Compliant
BS EN ISO 11925-2	F_s≤ 150mm within 20s	12	F_s≤ 150mm	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. Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

4.2 Classification

The product polymer panel with FPCC coating, in relation to its reaction to fire behavior is classified:

Fire Behaviour		Smoke Production		Flaming droplets/Particles
B_{fl}	-	s1	,	-

Reaction to fire classification:

B_{fl}-s1

This classification is only valid for the final condition of use described in the present report

4.3 Field of Application

The classification of this product is valid only for the following end use applications

Thickness	10mm
Colour	White
Weight per unit area	11.00 kg/m^2
Density	1050 kg/m3
Composition	No variation
Construction	No variation

5. Limitations

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

6. Signatories

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