



Le progrès, une passion à partager
LABORATOIRE DE TRAPPES
29 avenue Roger Hennequin – 78197 Trappes Cedex
Tél. : 01 30 69 10 00 – Fax : 01 30 69 12 34

File G071191 - Document CEMATE/4 - Page 1/5

**This document is an extension of the classification report referenced :
File F040811 - Document CEMATE/23 dated on 17/05/2005**

EUROPEAN REACTION TO FIRE CLASSIFICATION REPORT IN ACCORDANCE WITH EN 13501-1: 2002

And the french modified Arrêté dated 21 November 2002 about the reaction to fire of construction and fitting-out products

N° G071191 - CEMATE/4

Sponsor : GE PLASTICS BV
PO Box 117
4600 AC BERGEN OP ZOOM
NETHERLANDS

Commercial trademarks : Lexan Thermoclear Solar Control IR :
2UVIR62R13 ; 2UVIR82R15 ; 2UVIR102R17 ; 2UVIR105R175 ;
2UVIR103R19 ; 2UVIR103X20 ; 2UVIR103T20 ; 2UVIR163T27 ;
2UVIR166R27 ; 2UVIR166R29 ; 2UVIR163X28 ; 2UVIR163X29 ;
2UVIR205R33 ; 2UVIR205X32 ; 2UVIR256R35 ; 2UVIR255X34 ;
2UVIR325X38

Brief description : Material made up of 100 % GE resin polycarbonate covered with a UV protection coating. A small amount of IR additive is used.
The product is composed of two external layers and interior veins to form the rectangular cavities across the width of the sheet.

Thicknesses : 6 to 32 mm.
Masses per unit area : (1,3 to 3,8) kg/m².

Period of validity : 5 years from the 17 May 2205.

The quoted results are only applicable to the samples, the products or materials described in this document.

**The full document can be copied.
It is composed of 6 pages**

Laboratoire national de métrologie et d'essais

Établissement public à caractère industriel et commercial • Siège social : 1, rue Gaston Boissier - 75724 Paris Cedex 15 • Tél. : 01 40 43 37 00
Fax : 01 40 43 37 37 • E-mail : info@lne.fr • Internet : www.lne.fr • Siret : 313 320 244 00012 • NAF : 743 B • TVA : FR 92 313 320 244
Barclays Paris Centrale IBAN : FR76 3058 8600 0149 7267 4010 170 BIC : BARCFRPP

1. INTRODUCTION

This classification report defines the classification assigned to product in accordance with the procedures given in EN 13501-1 : 2002.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. NATURE AND END USE APPLICATION

Material made up of 100 % GE resin polycarbonate covered with a UV protection coating. A small amount of IR additive is used. The product is composed of two external layers and interior veins to form the rectangular cavities across the width of the sheet.

End use : Walls, roofing.

2.2. DESCRIPTION

The tested product referenced are fully described in the test reports referenced File G071191 – Documents CEMATE/1 and CEMATE/2.

Main characteristics of tested product :

Commercial Trademark	Mass per unit area (kg/m ²)	Thicknesses (mm)	Colors
Lexan Thermoclear Solar Control IR	3,8 kg/m ²	32 mm	Grey, green and blue

The thicknesses range was validated by control tests on the 32 mm thickness knowing that the difference with "Lexan® Thermoclear® Sun XP" reference in that a small amount of IR additive is used.

Report to be followed on next page

3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION**3.1. TEST REPORTS**

Name of laboratory	Name of sponsor	Test report ref. n°	Test method
Laboratoire national de métrologie et d'essais 29 av. Roger Hennequin 78197 TRAPPES Cedex FRANCE Notified Body : 0071	GE PLASTICS BV PO Box 117 4600 AC BERGEN OP ZOOM NETHERLANDS	G071191 : CEMATE/1 CEMATE/2	EN ISO 11925-2 : 2002. Ignability. EN 13823 :2002 SBI test.

Report to be followed on next page

3.2. TEST RESULTS FOR CONSTRUCTION PRODUCTS EXCEPT FLOORINGS

Test Method	Parameter	Number of tests	Results	
			Continuous parameters mean m	Compliance parameter
EN ISO 11925-2 :2002. Surface application. 30 s exposure 32 mm panels	$F_s \leq 150$ mm	6	–	YES
	Flaming droplets / particules with a filter paper ignition		–	NO
EN 13823 :2002 Lexan Thermoclear Solar Control IR 32 mm	FIGRA _{0.2 MJ} (W/s)	3	83	–
	FIGRA _{0.4 MJ} (W/s)		80	–
	LFS < bord THR _{600s} (MJ)		3,8	YES –
	SMOGRA (m ² /s ²)	3	22	–
	TSP _{600s} (m ²)		98	–
	Gouttes/particules enflammées (FDP) :		–	NO
	FDP ≤ 10 s :		–	–
	FDP > 10 s :		–	–

Report to be followed on next page

4. CLASSIFICATION AND DIRECT FIELD APPLICATION

4.1. CLASSIFICATION

The classification has been carried out in accordance with clause 10 of EN 13501-1 : 2002.

Fire behaviour	Smoke production	Flaming droplets
B	s2	d0

Classification : **B – s2, d0**

4.2. FIELD OF APPLICATION

The classification is valid for the following product parameters :

- mass per unit area : (1,3 to 3,8) kg/m²,
- thickness of panel : 6 to 32 mm,
- colour : various colours,
- same composition than the products mentioned in the tests reports.

The classification is valid for the following end use conditions :

- without substrate, Or with substrate classified A2 and a minimum airgap of 180 mm.

5. LIMITATIONS

5.1. RESTRICTIONS CONCERNING THE VALIDITY PERIOD OF THE CLASSIFICATION REPORT

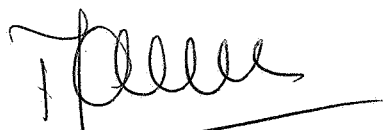
Period of validity : 5 years from the 17 May 2005.

5.2. WARNING

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

Trappes, the 12 March 2007

The Director of the Centre
for Energy, Materials and Packaging


Hervé MARCEL



The Responsible for test


Alexandre DERNIAUX