



**CLASSIFICATION OF REACTION  
TO FIRE PERFORMANCE  
IN ACCORDANCE WITH EN  
13501-1: 2002**

**Sponsor:** General Electric Plastics BV  
1 Plasticslaan  
PO Box 117  
4600 AC Bergen op Zoom  
The Netherlands

**Prepared by:** Warrington Fire Research Centre  
Holmesfield Road  
Warrington  
WA1 2DS  
England

**Notified Body No:** 0833

**Product name:** Lexan® Thermoclear® Easy Clean Sheets

**Classification report No.:** E132002

**Issue number:** 2

**Date of issue:** 06-02-04

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

## 1. Introduction

This classification report defines the classification assigned to Lexan® Thermoclear® Easy Clean Sheets in accordance with the procedures given in EN 13501-1:2002

## 2. Details of classified product

### 2.1 General

The product, Lexan® Thermoclear® Easy Clean Sheets, is defined as being suitable for wall or ceiling applications.

### 2.2 Product description

The product, Lexan® Thermoclear® Easy Clean Sheets, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

**Product description:**

The products that are the subject of this consideration are, LEXAN® THERMOCLEAR® EASY CLEAN SHEETS, manufactured by General Electric Plastics BV, 1 Plasticlaan, PO Box 117, 4600 AC Bergen op Zoom, The Netherlands, having a total thickness of between 4mm and 20mm, manufactured from "Lexan" polycarbonate resin.

Lexan Thermoclear Plus Sheets are multi-wall polycarbonate glazing, clear transparent sheets colour reference "112" which can be produced in twin, triple and X-structure, wall structures.

Lexan Thermoclear Plus Sheet Range is fully described in Annex 1 of this report and in the test reports provided in support of classification listed in Clause 3.1.

## 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
Warrington Fire Research Centre	GE Plastics BV	WARRES 131539, 131541	EN 13823
Warrington Fire Research Centre	GE Plastics BV	WARRES 131543, 131544	EN ISO 11925-2
Warrington Fire Research Centre	GE Plastics BV	WARRES 131300	EN 13501-1

### 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  flaming droplets/particles	$F_s \leq 150\text{mm}$	6, 6	27, 23	Y
	Ignition of filter paper		N	Y
EN 13823	FIGRA $_{0.2\text{MJ}} \leq 120 \text{ W/s}$ THR $_{600\text{s}} \leq 7.5 \text{ MJ}$  LSF < edge  SMOGRA $\leq 30 \text{ m}^2/\text{s}^2$ TSP $_{600\text{s}} \leq 50 \text{ m}^2$	3, 3	0, 21.56	Y
			0.86, 1.78	Y
			(-),(-)	Y
			0.44, 6.78	Y
			33.50, 46.36	Y

#### 4. Classification and field of application

##### 4.1 Reference of classification

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

##### 4.2 Classification

The product, Lexan® Thermoclear® Easy Clean Sheets, 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 products excluding floorings 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:

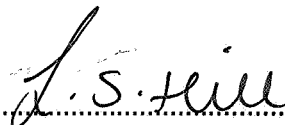
- i) Wall and ceiling applications installed without the presence of a substrate
- ii) Wall and ceiling applications installed with a minimum air gap of 120mm

This classification is also valid for the following product parameters:

Thickness	Between 4mm and 20mm
Colour	No colour variation allowed
Wall Structures	No variation in structures allowed
Substrate	No substrates allowed
Air Gap	Minimum air gap of 120mm
Edges	No variation from sealed edges

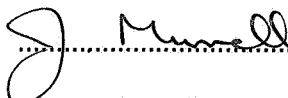
**SIGNED**

**APPROVED**



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**Leigh Hill**  
Technical Officer  
Technical Department



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**Janet Murrell**  
Technical Manager  
Technical Department  
on behalf of  
**Warrington Fire Research Centre**

**ANNEX 1**

The following list of products are those in the GENERAL ELECTRIC PLASTICS BV range which comply with the description of product for which this classification applies:

LEXAN® THERMOCLEAR® EASY CLEAN 4.0/2RS/0.8  
LEXAN® THERMOCLEAR® EASY CLEAN 4.5/2RS/1.0  
LEXAN® THERMOCLEAR® EASY CLEAN 6/2RS/1.3  
LEXAN® THERMOCLEAR® EASY CLEAN 8/2RS/1.5  
LEXAN® THERMOCLEAR® EASY CLEAN 8/3RS/1.7  
LEXAN® THERMOCLEAR® EASY CLEAN 10/2RS/1.6  
LEXAN® THERMOCLEAR® EASY CLEAN 10/2RS/1.7  
LEXAN® THERMOCLEAR® EASY CLEAN 10/3TS/1.7  
LEXAN® THERMOCLEAR® EASY CLEAN 10/3RS/1.9  
LEXAN® THERMOCLEAR® EASY CLEAN 10/3X/1.9  
LEXAN® THERMOCLEAR® EASY CLEAN 10/3TS/2.0  
LEXAN® THERMOCLEAR® EASY CLEAN 16/3TS/2.7  
LEXAN® THERMOCLEAR® EASY CLEAN 16/3TS/2.8  
LEXAN® THERMOCLEAR® EASY CLEAN 16/3X/2.9  
LEXAN® THERMOCLEAR® EASY CLEAN 20/5RS/3.2  
LEXAN® THERMOCLEAR® EASY CLEAN 20/5RS/3.3  
LEXAN® THERMOCLEAR® EASY CLEAN 20/5X/3.2