



**CONFIDENTIAL**

**Report: Chilt/B11140**

**Classification of reaction to fire  
performance in accordance with  
BS EN 13501-1:2007+A1:2009**

**Product: TL004 Flame Retardant  
Polyethylene Sheet**

**Issue date: August 2012**

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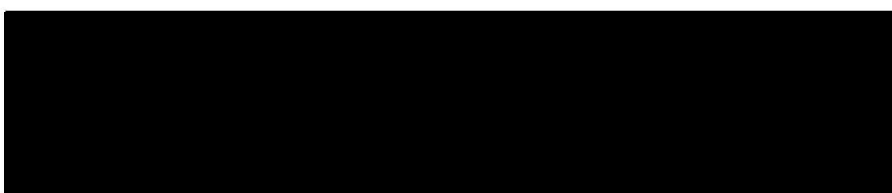
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**CLASSIFICATION OF REACTION TO FIRE  
PERFORMANCE IN ACCORDANCE WITH  
BS EN 13501-1:2007+A1:2009**



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**Product name:** TL004 Flame Retardant Polyethylene Sheet

**Classification Report No:** Chilt/B11140

**Issue Number:** 1

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## 1 Introduction

This classification report defines the classification assigned to the product, TL004 Flame Retardant Polyethylene Sheet, in accordance with the procedures given in BS EN 13501-1:2007+A1:2009.

## 2 Details of classified product

### 2.1 General

The product, TL004 Flame Retardant Polyethylene Sheet, is defined as a flame retardant polyethylene sheet.

### 2.2 Product description

The product, TL004 Flame Retardant Polyethylene Sheet is described briefly below.

Component	Specification
Polyethylene Sheet	A white 0.1mm thick polyethylene sheet with a flame retardant additive

The product is fully described in the test reports provided in support of classification listed in Clause 3.1 of this document.



### 3 Test reports/extended application reports and test results in support of classification

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of Sponsor	Test Reports	Test Method
Chiltern International Fire Ltd		Chilt/B11140/01	BS EN ISO 11925-2:2010
Chiltern International Fire Ltd		Chilt/B11140/02	BS EN 13823:2010

#### 3.2 Test results

Test Method	Number of tests	Parameter	Results	
			Parameter - mean	Compliance with parameters for classification
BS EN ISO 11925-2:2010				
30sexposure – Surface test Clause 7.3.3.1	6	F <sub>s</sub> (flame spread)	F <sub>s</sub> ≤ 150mm within 60s	Compliant
		Flaming droplets/ particles	No ignition of filter paper	Compliant
		Flaming droplets/ particles	No ignition of filter paper	Compliant
BS EN 13823:2010				
BS EN 13823:2002	3	FIGRA 0.2 MJ LFS (to edge of specimen) THR 600s	0.0 No 0.29	Compliant
		SMOGRA TSP 600s	0.0 11.22	Compliant
		Flaming droplets/ particles	None	Compliant

## **4 Classification and field of application**

### **4.1 Reference of classification**

This classification has been carried out in accordance with clause 8 of BS EN 13501-1:2007+A1:2009. This classification is valid for the front and rear surfaces of this product as they are identical.

### **4.2 Classification**

The product, TL004 Flame Retardant Polyethylene Sheet, 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**

<b>Reaction to fire classification: B-s1, d0</b>
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### 4.3 Field of application

This classification is valid for the following product parameters:

<b>Thickness</b>	0.1 mm
<b>Colour</b>	White
<b>Mass per unit area</b>	92.6 g/m <sup>2</sup> ** (91.5 g/m <sup>2</sup> *)

\* Details obtained by Chiltern International Fire Limited.

\*\* Details provided by client.



This classification is valid for the following end use applications:

<b>Substrate</b>	No substrate coverage, the product is freestanding with no backing substrate in end use
<b>Air gap</b>	Free standing
<b>Means of fixing</b>	No means of fixing were assessed
<b>Corner joint</b>	Over lapped butt joint
<b>Horizontal joint</b>	No
<b>Vertical joint</b>	No
<b>Exposed edges</b>	No

## 5 Limitations

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

## 6 Authorisation

	<b>Written by:</b>	<b>Authorised by:</b>
<b>Signature:</b>		
<b>Name:</b>	Philip Howard	Jonathan Osborn
<b>Title:</b>	Head of Section Fire Behaviour	Chief Operating Officer
<b>Date of issue:</b>	09/08/12	

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