

CLASSEMENT AU FEU DES FILTRES LEE

EXAMEN D'UN FILTRE DE COULEUR EN POLYESTER

RESUME -

Un échantillon de filtre de couleur en polyester pour l'industrie du théâtre, de la télévision et du cinéma a été testé au B.S. 3944 - 1965 ("filtres de couleur pour l'éclairage de théâtre et autres") et a rempli les conditions exigées. L'échantillon a été également testé au B.S. 2782 ("Méthodes pour tester les plastiques, Méthodes 508 C et 508 D") pour mesurer son caractère inflammable.

1 - INTRODUCTION -

Cet examen a été autorisé par une lettre de Mr D.A. Holmes en date du 28 Avril 1976 qui faisait suite à une conversation téléphonique avec Mr D.J. Traford de ces laboratoires.

2 - ECHANTILLONS RECUS -

Une feuille d'échantillon orange décrite comme filtre de couleur en polyester a été reçue à ces laboratoires le 3 Mai 1976.

3 - METHODES DE TEST -

3.1. - La solidité de la couleur à la lumière artificielle a été déterminée selon le BS 3944, Article A.

3.2. - La solidité de la couleur à la chaleur a été déterminée selon le BS 3944, Article B.

3.3. - Caractère ininflammable -

Le caractère ininflammable a été estimé selon le BS 3944, Article C. (Essentiellement le BS 2782 - Méthode 508 D avec une interprétation différente des résultats).

3.4. - Caractère inflammable -

Il a été déterminé selon le BS - 2782 Méthodes 508 C et 508 D.

4. - RESULTATS -

4.1. _ Solidité de la couleur à la lumière artificielle.

Norme 5.

4.2. - Solidité de la couleur à la chaleur.

Niveau 5 sur l'échelle grise.

4.3. - Caractère ininflammable -

a) Durée de la flamme : néant

b) Etendue de brûlure : néant

c) Propagation du feu : néant

4.4. - Caractère inflammable B.S. 2782 - Méthode 508 C.

Spec. Ref.	Trajet maximum de la flamme en mn	
1		37
2		40
3		40
4		37
5		38
6		28

4.5. - Caractère inflammable B.S. 2782 - Méthode 508 D.

Spec Ref.	Durée de rougeoiement ou des flammes	Flammes sur le matériau	% de surface carbonisée ou roussie en-dessous	Longueur du côté
1	Néant	Néant	3	Néant
2	Néant	Néant	4	Néant
3	Néant	Néant	4	Néant
4	Néant	Néant	2	Néant
5	Néant	Néant	4	Néant
6	Néant	Néant	3	Néant

NOTE -

En ce qui concerne le test sur le caractère inflammable selon le BS 2782 - Méthodes 508 C et 508 D, il faut noter ce qui suit :

Les résultats des tests sont effectués à partir du "comportement" des échantillons testés et selon des conditions bien spécifiques aux tests ; ils ne sont pas réalisés en tant que moyen d'évaluer le risque d'incendie sur le matériau utilisé.



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For the attention of Mr. D.A. Holmes.

REPORT NO. G.63318/1.

EXAMINATION OF A POLYESTER FILM COLOUR FILTER.

SUMMARY.

A sample of Polyester film colour filter for the theatrical, television and motion picture industries has been tested to B.S. 3944 : 1965, "Colour Filters for Theatre Lighting and Other Purposes", and found to meet the specification requirements. The sample was also tested to B.S. 2782, "Methods of Testing Plastics", Methods 508C and 508D to assess its flammability.

1. INTRODUCTION.

This examination was authorised by a letter from Mr. D.A. Holmes dated 28th April 1976 which followed a telephone conversation between Mr. D.A. Holmes and Mr. D.J. Trafford of these laboratories.

2. SAMPLES RECEIVED.

An orange sample sheet described as Polyester film colour filter was received at these laboratories on 3rd May 1976.

3. TEST METHODS.

3.1. Colour Fastness to Artificial Light.

The colour fastness to artificial light was determined according to B.S. 3944, Appendix A.

3.2. Colour Fastness to Heat.

The colour fastness to heat was determined according to B.S. 3944, Appendix B.

3.3. Non-Flammability.

The non-flammability was measured according to B.S. 3944, Appendix C. (Essentially B.S. 2782 Method 508D with a different interpretation of results).

3.4. Flammability.

The flammability was determined according to B.S. 2782 Method 508C.

3.5. Flammability.

The flammability was determined according to B.S. 2782 Method 508D.

4. RESULTS.

4.1. Colour Fastness to Artificial Light.

Standard 5.

4.2. Colour Fastness to Heat.

Grade 5 on the Grey Scale.

4.3. Non Flammability.

- (a) Duration of flaming : Nil
- (b) Extent of burning : Nil
- (c) Spread of fire : None

4.4. Flammability. B.S. 2782 Method 508C.

Spec. Ref.	Maximum Travel of Flame, mm.
1	37
2	40
3	40
4	37
5	38
6	28

4.5. Flammability, B.S. 2782 Method 508D.

Spec. Ref.	Length of time spec. glows or flames, secs.	Flaming material drops.	% area of underside charred/scorched.	Length of edge charred/scorched.
1	Nil	None	3	Nil
2	Nil	None	4	Nil
3	Nil	None	4	Nil
4	Nil	None	2	Nil
5	Nil	None	4	Nil
6	Nil	None	3	Nil

NOTE.

For the flammability tests according to B.S. 2782 Methods 508C and 508D, the following must be noted:

"The test results relate only to the behaviour of the test specimens under the particular conditions of the test; they are not intended as a means of assessing the potential fire hazard of the material in use".

REPORTED BY *J. H. C. de*
D. F. TRAFFORD
Head of Mechanical & Physical Testing
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AUTHORISED BY *J. A. Mead*
J. A. MEAD
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