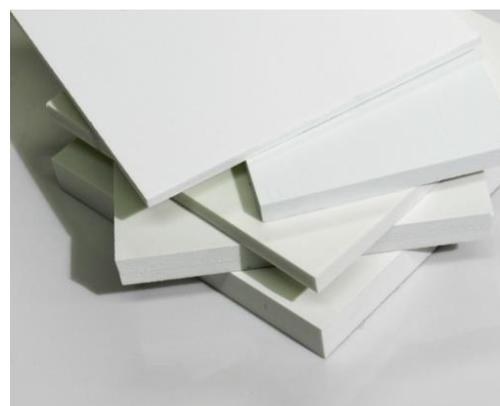


MatexPVC®

PRESENTATION

Les plaques de PVC expansées blanc sont idéales en usage intérieur et extérieur dans le domaine de la publicité, de la construction et de l'industrie.

Les plaques sont caractérisées par leur légèreté, leur durabilité et leurs surfaces polyvalentes pouvant être sérigraphiées, imprimées, laminées, travaillées en relief, gravées ou fraisées.



Référence	Désignation	Dimensions	Tolérance d'épaisseur (mm)
MK1	PVC expansé blanc de 1 mm	3050 x 1220 x 1 mm	0.6 - 1.4
MK2	PVC expansé blanc de 2 mm	3050 x 1220 x 2 mm	1.6 - 2.4
MK3	PVC expansé blanc de 3 mm	3050 x 1220 x 3 mm	2.6 - 3.4
MK4	PVC expansé blanc de 4 mm	3050 x 1220 x 4 mm	3.6 - 4.4
MK5	PVC expansé blanc de 5 mm	3050 x 1220 x 5 mm	4.6 - 5.4
MK10	PVC expansé blanc de 10 mm	3050 x 1560 x 10 mm	9.6 - 10.4
MK15	PVC expansé blanc de 15 mm	3050 x 1220 x 15 mm	14.6 - 15.4
MK19	PVC expansé blanc de 19 mm	3050 x 1220 x 19 mm	17.6 - 19.4
MK1915	PVC expansé blanc de 19 mm	3050 x 1560 x 19 mm	17.6 - 19.4
MK20	PVC expansé blanc de 20 mm	3050 x 2050 x 20 mm	19 - 21
MK25	PVC expansé blanc de 25 mm	3050 x 1220 x 25 mm	23.75 - 26.25
MK38	PVC expansé blanc de 38 mm	3050 x 1220 x 38 mm	36.75 - 39.25

PROPRIÉTÉS TECHNIQUES

Propriétés	Méthode de test	Unités	Valeurs
Densité	ASTM D792	g/cm ³	0.47 - 0.55
Perméabilité à l'eau	ASTM D570	%	1≤
Limite d'élasticité en flexion	ASTM D790	Mpa	834
Dureté (Shore D)	ASTM D2240	D	45-80
Force de maintien vissé	QB/T 17657	N	842
Point VICAT	QB/T 2463.2	°C	74
Coefficient Linéaire de Dilatation Thermique	ASTM D696	mm/m°C	0.0422
Comportement au feu	EN 13501	Class	D
Comportement au feu	UL-94	Class	V0

Les rapports d'essais au feu sont en fin de fiche technique.

Les rapports d'essais sont valables pour l'ensemble des épaisseurs, la matière première n'étant pas modifiée en fonction de l'épaisseur.

AVANTAGE PRINCIPAUX

- Poids plus léger de moitié que les plaques de PVC solide
- Bonnes qualités mécaniques
- Bonne isolation, transmission de chaleur réduite
- Facile à travailler avec des outils, en impressions et avec des peintures conventionnelles
- Peut être facilement collée, formée, clouée et vissée
- Inflammabilité: plaque auto-extinguible
- Faible perméabilité à l'eau
- Haute résistance chimique
- Conforme à divers standards internationaux
- Non toxique

APPLICATIONS

- **Publicité** - Panneaux, tableaux d'affichage et d'exposition, enseigne, etc.
- **Construction** - Allèges, cloisons, revêtement mural, décoration intérieure, gaines de climatisation, etc.
- **Industrie** - Cabines et panneaux de contrôle, structures adaptées aux milieux corrosifs, conduits, etc.
- **Sérigraphie** - La qualité de la surface et sa régularité en font un produit idéal pour la sérigraphie. Ces plaques sont compatibles avec des encres aqueuses ou à base de solvants.
- **Impression numérique** - La plaque a été spécialement conçue pour des impressions "flatbed".

MISE EN OEUVRE

Les plaques de PVC expansé peuvent être aisément et économiquement travaillées à l'aide des mêmes outils couramment employés dans l'industrie du bois et du métal.

La manipulation, la manutention et le stockage sont particulièrement aisés, grâce à leur très grande légèreté.

En règle générale, il est conseillé de procéder en employant une vitesse de coupe élevée et une vitesse d'alimentation réduite.

Dans les cas extrêmes, il est recommandé de refroidir les lames à l'air comprimé.

Le PVC expansé peut être découpé aisément à l'aide d'un couteau.

Découpe :

La découpe des plaques de PVC expansé se fait facilement à l'aide d'une lame droite à dents fines et bien affûtée, une scie à ruban, une scie circulaire ou bien sur une scie sauteuse.

Perçage - Les plaques de PVC expansé peuvent être percées à l'aide de n'importe quel type de perceuse ordinaire.

Fixation - Les plaques de PVC expansé peuvent être vissées, boulonnées ou clouées. Afin d'obtenir une meilleure répartition de la charge sur une plus grande surface, nous recommandons l'utilisation de rondelles de grand diamètre.

Impression :

Les plaques de PVC expansé conviennent à toutes les techniques d'impression. Les plaques doivent être propres et sèches avant de procéder à l'impression.

Collage :

Les colles employées couramment pour le collage du PVC ainsi que la plupart des colles à base de solvant conviennent. Afin d'obtenir une adhérence structurale maximale, employer un produit adhésif à deux étapes. Pour la fixation temporaire, utiliser une bande auto-adhésive.

Soudure :

Les plaques de PVC expansé peuvent être soudées entre elles ou bien à d'autres plaques rigides en PVC à l'aide d'une soudeuse à air chaud courante ou bien en employant la méthode dite "de la lame chauffante".

THERMOFORMAGE

Les plaques de PVC expansé peuvent être thermoformées sous vide, embouties. L'outillage utilisé normalement pour le thermoformage des plaques en plastique peut s'employer pour travailler le PVC expansé.

- Afin d'éviter un affaissement excessif, les plaques de PVC expansé de grandes dimensions nécessitent d'être soutenues par soufflage.
- Les formes peu profondes peuvent être réalisées de manière satisfaisante avec presque tout type d'outillage de thermoformage habituel.
- Les formes plus complexes ou plus profondes exigent un système de chauffe à double face (de type « sandwich »). Par rapport à d'autres types de plaques en plastique rigide, le thermoformage des plaques de PVC expansé est avantageux : le temps de travail est généralement réduit, le rayon et la profondeur du formage ne sont limités que par le degré d'élasticité de la surface.

Température de formage

- A) Plage de thermoformage de 115°C à 130°C. Bonne élasticité de la matière, bien que la définition des contours soit quelque peu limitée. La souplesse initiale de la surface du PVC expansé est conservée. Rapport maximum de formage recommandé h:d environ 1 :1.25
- B) Plage de thermoformage de 160 °C à 170 °C. Elasticité moyenne, excellente définition des contours. A cause de l'étirage, la surface peut paraître légèrement grainée. Afin d'éviter un affaissement excessif, les plaques de grandes dimensions nécessitent d'être soutenues par soufflage. A des températures de 160 °C à 170 °C, une légère altération de couleur peut avoir lieu.

Cycle thermique

L'emploi d'une source de chaleur rayonnante raccourcit sensiblement le cycle thermique en comparaison à celui exigé pour le travail des plastiques rigides. Le cycle dépendra du type de machine de formage employé.

Un four à rayons infra rouges de type céramique convient le mieux. Il est fortement conseillé de chauffer les deux faces (haut et bas), surtout lors du formage des plaques plus épaisses.

Exemple pour une épaisseur de plaque de 5 mm :

Cycle thermique approximatif : chauffe d'une face par réchauffeur de type céramique :

- Température de l'élément chauffant : 450 °C
- Densité de puissance : 20 kW/m²

Epaisseur de la plaque (en mm)	Cycle thermique (en sec)
5	110

Cycle thermique approximatif : chauffe de deux faces par réchauffeur de type céramique :

- Température du réchauffeur : Haut – 380 °C, Bas -150 °C
- Densité de puissance : 40 kW/m²

Epaisseur de la plaque (en mm)	Cycle de chauffe (en sec)
5	60

DÉCLARATION DE CONFORMITÉ

Nous, soussignés la société MATEL,
domiciliée
18 rue d'Anjou
ZI Tharabie
F - 38291 St QUENTIN FALLAVIER

- Déclarons par la présente, suivant les données du fabricant, concernant les produits : **MatexPVC®**

Les rapports d'essais au feu sont valables pour l'ensemble des épaisseurs, la matière première n'étant pas modifiée en fonction de l'épaisseur.

MATEL
www.matel.com

Rapport d'essais au feu PVC 10 mm



Test Report

No. SDFS1911007258FF

Date: Nov.12, 2019

Page 1 of 4

Sample Description : PVC FOAM BOARD
Style / Item No. : 10MM

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

SGS Ref No. : GZHL1911045779SD
Sample Receiving Date : Nov.04, 2019
Test Performing Date : Nov.04, 2019 to Nov.12, 2019

Test Result Summary

Test(s) Requested	Result(s)
NF P 92-507:2004	Classification: M1

Summary:

- For further details, please refer to the following page(s).

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.




Daniel Guan
Approved signatory



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Test Report

No. SDFS1911007258FF

Date: Nov.12, 2019

Page 2 of 4

TESTS AND RESULTS

Test Conducted:

This test was conducted according to NF P 92-507:2004 Fire safety-building-interior fitting materials - Classification according to their reaction. And the test methods as following:

1) NF P 92-501:1995 Safety against fire – Building materials – Reaction to fire tests – Radiation test used for rigid materials, or for materials on rigid substrates (flooring and finishes) of all thicknesses, and for flexible materials thickness more than 5 mm

Conditioning:

Prior to testing, the sample was conditioned,

In an atmosphere having a temperature of (23±2)°C and a relative humidity of (50±5)% until constant mass is obtained. The mass is considered as constant when two successive weightings 24 hours apart do not differ by more than 0.1% or 0.1 g (take the highest mass value)

Test Results:

1) NF P 92-501:1995 Test by Radiation

---	Specimen 1	Specimen 2	Specimen 3	Specimen 4	AVE
Time of ignited exposed face (ti1) (seconds)	DNI	DNI	DNI	DNI	-
Time of ignited unexposed face (ti2) (seconds)	DNI	DNI	DNI	DNI	-
Sum of the height of the flame $\sum h$ (cm)	0	0	0	0	0
Sum of the duration of flaming combustion, ΔT	0	0	0	0	0
$q = \frac{100 \sum h}{t_i \sqrt{\Delta T}}$	N/A	N/A	N/A	N/A	N/A
Flaming molten droplets (Yes/No)	No	No	No	No	-
Non-flaming molten droplets (Yes/No)	No	No	No	No	-
Melt through (Yes/No)	Yes	Yes	Yes	Yes	-

Remark:

N/A- Not applicable

Conclusion: According to the test results and Annex 1 requirement, the submitted sample is classified: M1



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Test Report

No. SDFS1911007258FF

Date: Nov.12, 2019

Page 3 of 4

Annex I Requirements

Table 2 Resume of classification for the rigid materials and flexible materials which thickness more than 5mm

Radiation Test ^{a)}		Flame Spread		PCS	
Requirement		<2 mm/s	>2 mm/s	<2.5 MJ/kg	>2.5 MJ/kg
No Effective Inflammation	M0			M0 ^{a)}	M1
q<2.5 ^{b)}	M1				
q<15	M2				
q<50	M3				
q ≥50		M4	NC		

^{a)}For the classification M0 of multilayer materials and painted inert materials, refer to clause 3.3.2, 3.3.3, 3.3.4 and appendix C.

^{b)}The meanings of the index q refer to clause 3.2.3.4 of NF P 92-507:2004.

^{c)} If the materials presented a particular behaviour, the classification also needs to refer to Table 3.

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.



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SGS

Test Report

No. SDFS1911007258FF

Date: Nov.12, 2019

Page 4 of 4

SAMPLE INFORMATION AND PICTURES

Area density: About 6.36kg/m²
 Thickness: About 10 mm
 Test face: One Face



End of Report



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Rapport d'essais au feu PVC 38 mm


Test Report
No. SDFS1912008576FF
Date: Dec.18, 2019
Page 1 of 4

Sample Description : PVC FOAM BOARD
 Style / Item No. : 38MM

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SGS Ref No. : GZHL1912052177SD
 Sample Receiving Date : Dec.12, 2019
 Test Performing Date : Dec.12, 2019 to Dec.18, 2019

Test Result Summary

Test(s) Requested	Result(s)
NF P 92-507:2004	Classification: M1

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of
 Shunde Branch
 SGS-CSTC Co., Ltd.




Ada Liu
 Approved signatory



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Test Report

No. SDFS1912008576FF

Date: Dec.18, 2019

Page 2 of 4

TESTS AND RESULTS
Test Conducted:

This test was conducted according to NF P 92-507:2004 Fire safety-building-interior fitting materials - Classification according to their reaction. And the test methods as following:

1) NF P 92-501:1995 Safety against fire – Building materials – Reaction to fire tests – Radiation test used for rigid materials, or for materials on rigid substrates (flooring and finishes) of all thicknesses, and for flexible materials thickness more than 5 mm

Conditioning:

Prior to testing, the sample was conditioned,

In an atmosphere having a temperature of (23±2)°C and a relative humidity of (50±5)% until constant mass is obtained. The mass is considered as constant when two successive weightings 24 hours apart do not differ by more than 0.1% or 0.1 g (take the highest mass value)

Test Results:

1) NF P 92-501:1995 Test by Radiation

---	Specimen 1	Specimen 2	Specimen 3	Specimen 4	AVE
Time of ignited exposed face (ti1) (seconds)	DNI	DNI	DNI	DNI	-
Time of ignited unexposed face (ti2) (seconds)	DNI	DNI	DNI	DNI	-
Sum of the height of the flame $\sum h$ (cm)	0	0	0	0	0
Sum of the duration of flaming combustion, ΔT	0	0	0	0	0
$q = \frac{100 \sum h}{t_i \sqrt{\Delta T}}$	N/A	N/A	N/A	N/A	N/A
Flaming molten droplets (Yes/No)	No	No	No	No	-
Non-flaming molten droplets (Yes/No)	Yes	Yes	Yes	Yes	-
Melt through (Yes/No)	No	No	No	No	-

Remark:

N/A- Not applicable

Conclusion: According to the test results and Annex 1 requirement, the submitted sample is classified: M1



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Test Report

No. SDFS1912008576FF

Date: Dec.18, 2019

Page 3 of 4

Annex I Requirements

Table 2 Resume of classification for the rigid materials and flexible materials which thickness more than 5mm

Radiation Test ^{a)}		Flame Spread		PCS	
		<2 mm/s	>2 mm/s	<2.5 MJ/kg	>2.5 MJ/kg
No Effective Inflammation	M0			M0 ^{a)}	M1
q<2.5 ^{b)}	M1				
q<15	M2				
q<50	M3				
q ≥50		M4	NC		

^{a)} For the classification M0 of multilayer materials and painted inert materials, refer to clause 3.3.2, 3.3.3, 3.3.4 and appendix C.

^{b)} The meanings of the Index q refer to clause 3.2.3.4 of NF P 92-507:2004.

^{c)} If the materials presented a particular behaviour, the classification also needs to refer to Table 3.

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.



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Test Report

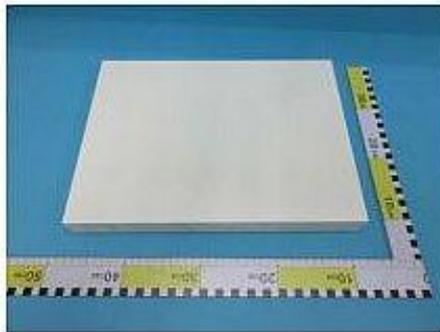
No. SDFS1912008576FF

Date: Dec.18, 2019

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SAMPLE INFORMATION AND PICTURES

Area density: About 24.0kg/m²
 Thickness: About 38 mm
 Test face: One face



End of Report



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