

PRESENTATION

Le PMMA est la matière plastique ayant la meilleure qualité optique associée à une résistance aux UV incomparable.

Utilisé en signalétique et enseignes pour les panneaux lumineux, l'affichage en 3D, l'agencement de magasin, etc.



Référence	Désignation	Caractéristiques	Tolérance	Dimensions	Poids d'une plaque
MAPMMA3	Plaque MATELGLASS 3 mm	PMMA coulé blanc diffusant	± 0.4	3050 x 2050 x 3 mm	22,51 kg ± 0,1
MAPMMA4	Plaque MATELGLASS 4 mm		± 0.5	3050 x 2050 x 4 mm	30,00 kg ± 0,1
MAPMMA20	Plaque MATELGLASS 20 mm		± 1.5	2440 x 1220 x 20 mm	71,44 kg ± 0,1
MAPMMA30	Plaque MATELGLASS 30 mm		± 1.7	1940 x 1300 x 30 mm	90,79 kg ± 0,1
MAPMMA30	Plaque MATELGLASS 30 mm		± 1.7	2440 x 1240 x 30 mm	108,92 kg ± 0,1

Données Techniques :

- Densité: 1.2 g/cm³,
- Température limite d'utilisation : de (-40°) à (+70°),
- Dilatation de : 0.8 mm par m par tranche de (10°),
- Indice de transmission lumineuse: 38%,
- Tenue aux UV : Très bonne tenue naturelle aux UV (+ de 10 ans),
- Résistance mécanique: Environ 30 fois plus résistant que le verre,
- Comportement dans l'eau : Coule, la densité est supérieure à 1g/cm³,
- Comportement au feu: Classement M3. (Voir certificat page 3)

Avantages particuliers:

- Excellente tenue au vieillissement, tenue aux UV (+10 ans),
- Rigidité, surface dure.

Précautions (limite d'utilisation):

- Classement feu limité,
- Fragilité relative: Cassant et rayable,
- Faible tenue aux températures,
- Résistance chimique moyenne (sensible aux supercarburants).

Techniques de transformation:

Fraisage (enlèvement de matière), découpe et gravure laser (champs polis), perçage, pliage à chaud, emboutissage et soufflage à chaud, formage à chaud, ponçage, collage, soudage, possibilité de peindre, impression.

Utilisation les plus courantes :

Luminaires, globes, enseignes (éclairage tangentiel), agencements magasins, pare-brises bateaux, vitrines de musée, etc...

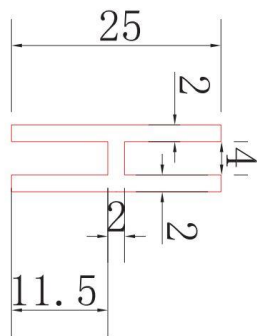
Entretien :

A l'eau savonneuse, produits chimiquement non agressifs.

ACCESSOIRE

Le profil forme H de 3m en Polycarbonate transparent permet de relier chant sur chant 2 plaques de Matelglass d'épaisseur de 3 à 4 mm max.

Référence	Désignation
PAMGH	Profil Forme H- 3m



MISE EN ŒUVRE

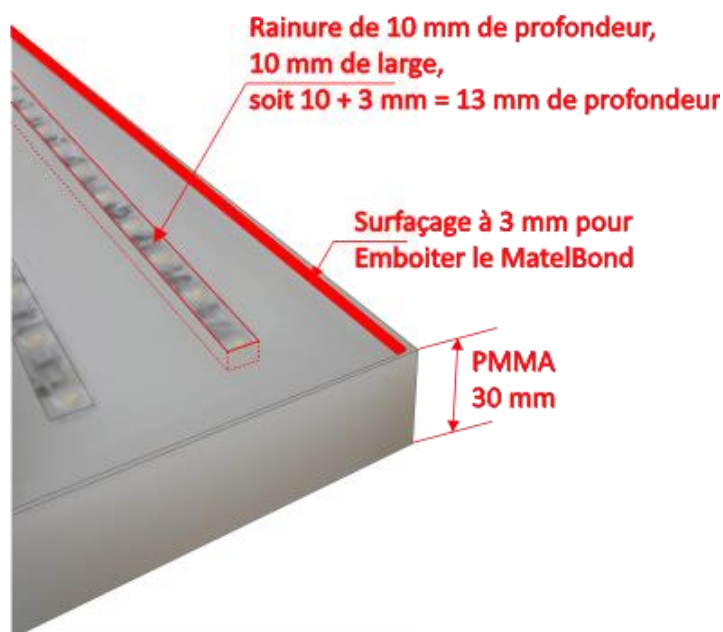
Eclairage de lettres découpées dans du MATELGLASS de 30 mm.

L'application présentée n'est valable qu'avec l'utilisation des systèmes d'éclairage à leds COB0535 et d'un fond en matériaux composite MATELBOND Blanc (pour le câblage des modules à leds, se référer à la fiche technique du produit).

Il est également possible d'utiliser des modules COB01 (2 ans de garantie) à la place des COB0535, et pour le fond, du PVC expansé à la place du MATELBOND (attention à la diffusion de la chaleur générée par les leds).



25 mm maxi 50 mm maxi



Eclairage de caisson à face en tôle ajourée avec MATELGLASS de 20 mm.

Il est possible de réaliser des caissons avec rétro éclairage dans le fond du caisson et une face en tôle alu ou MATELBOND ajouré sur laquelle vous pouvez contre coller une plaque de MATELGLASS 20mm avec épaulement pour l'emboîtement de la plaque par l'arrière de la face.





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The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description: CAST ACRYLIC SHEET DIFFUSER BOARD WHITE

Supplier: Confidential

Manufacture: Confidential

Country of Origin: CHINA

Test Requested:

NF P 92-507:2004 Fire safety-building-interior fitting materials-Classification according to their reaction to fire

Test Results: -- See attached sheet --

Conclusion:

Classification: M3

Note: The classes with their corresponding fire performance are given in Annex I.

Test Period:

Sample Receiving Date : JUN.15, 2019

Test Performing Date : JUN.15, 2019 TO JUN.21, 2019

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



Allen Zou
Technical Supervisor

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I. 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:

NF P92-501:1995 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 thicker than 5 mm

II. Details of classified product

The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Color	White
Size of sample	Length 400mm, Wide 300mm
Thickness (mm)	About 29mm

III. Conditioning

Prior to testing, the sample was conditioned,

In an atmosphere having a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ 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).

To be continued....

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IV. Test results

NF P92-501:1995 Test by Radiation

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	AVE
Time of ignited exposed face (t1) (seconds)	196	198	192	195	
Time of ignited unexposed face (t2) (seconds)	634	621	638	640	
Sum of the height of the flame $\sum h$ (cm)	2407	2341	2308	2265	
Sum of the duration of flaming combustion, ΔT	1004	1002	1008	1005	
$q = \frac{100 \sum h}{t_i \sqrt{\Delta T}}$	38.8	37.4	37.9	36.6	37.7
Flaming molten droplets (Yes/No)	No	No	No	No	
Non-flaming molten droplets (Yes/No)	No	No	No	No	

Note:

t₁: Time for the test piece to ignite on exposed face after it has been placed in the cabinet;

t₂: Time for the test piece to ignite on the unexposed face after it has been placed in the cabinet;

t_i: Time for the test piece to ignite after it has been placed in the cabinet;

$\sum h$: Is the sum of the maximum height of the flames (h) reached in every 30 second period (in centimeters) during each test;

ΔT : The total duration of flaming combustion above the top of the radiator (it is calculated whether either one or both faces of the specimen flame);

q: Is the classification index obtained from the data derived from each test.

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.

To be continued....

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Annex I, Requirements

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

Radiation Test ^{c)}		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.

Table 3 Resume of classification for the materials presented a particular behaviour

Test Items	Criteria of classification				
		Not ignite the wadding	Not ignite the wadding	Ignite the wadding	Ignite the wadding
Test for hot melt materials					
Flame Persistence Test	No drops	Non-flaming molten droplets	Flaming drops or debris	Non-flaming molten droplets	Flaming drops or debris
Flame persistence time ≤2s	M1	M1	M2	M4	M4
Flame persistence time ≤5s	M2	M2	M3	M4	M4
Flame persistence time >5s and Flame Spread <2 mm/s	M3	M3	M4	M4	M4

To be continued....

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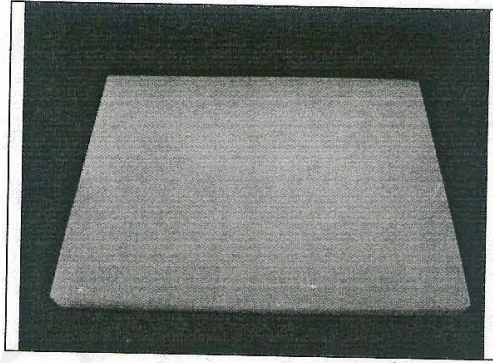
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Photo Appendix:


End of Report

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