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	Dimensions	Poids d'une plaque
MAPMMAT2303	Plaque MATELGLASST 3 mm	PMMA coulé transparent	2000 x 3000 mm	21,4 kg ± 0,2
MAPMMAT2304	Plaque MATELGLASST 4 mm			28,6 kg ± 0,2
MAPMMAT2305	Plaque MATELGLASST 5 mm			35,7 kg ± 0,2
MAPMMAT233303	Plaque MATELGLASST 3 mm		2030 x 3030 mm	22,0 kg ± 0,2
MAPMMAT233304	Plaque MATELGLASST 4 mm			29,3 kg ± 0,2
MAPMMAT233305	Plaque MATELGLASST 5 mm			36,6 kg ± 0,2
MAPMMAT5	Plaque MATELGLASST 5 mm		2050 x 3050 mm	37,2 kg ± 0,2

Données Techniques :

- Température limite d'utilisation : de (-40°) à (+70°),
- Indice de transmission lumineuse : 93,7% ; Après 1000h de vieillissement « Arc Xenon » : 89,2%,
- Allongement a la rupture : 3,5%
- Module d'élasticité en traction : 3080 MPa
- Résistance aux chocs : 18 kJ/m²
- Stabilité dimensionnelle : Transversale 1,9% ; Longitudinale 1,8%
- Température de ramollissement : 109°C
- Comportement au feu: Classement M3.

Avantages particuliers:

- Transparence optique (supérieur au verre ordinaire),
- 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…

MATEL GROUP SAS - ZI Tharabie - 18, rue d'Anjou – F-38291 St Quentin Fallavier Cedex - Tél : +33 (0)474 999 999
Email : technique@matel.fr SIRET : 339 827 834 00054 – APE 4669A – RCS 339 827 834 Vienne – Siège social : Saint Quentin Fallavier.

Classement au feu : E (voir certificat page suivante).

Reg. No. 041/S-159

The Experts on Fire Safety

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

with direct field of application

FIRES-CR-067-19-AUPE

Name of the product: Acrylic Product, , Material: PMMA, Colour: transparent

Sponsor:

Prepared by:
FIRES, s.r.o.
Notified Body No. 1396
Osloboditeľov 282
059 35 Batizovce
Slovak Republic

Task No.: PR-19-0104
Date of issue: 13. 03. 2019

Reports: 4
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FIRES-CR-067-19-AUPE

1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element Acrylic Product, Trade Name: , Material: PMMA, Colour: transparent in accordance with the procedures given in EN 13501-1: 2007 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Acrylic Product, Trade Name: Donchamp, Material: PMMA, Colour: transparent, is defined as a transparent flat solid Acrylic (PMMA) sheet for external use in walls, ect.

2.2 PRODUCT DESCRIPTION

Specimens dimensions were (250 x 90 x 4) mm (length x width x thickness).

Specimens with bulk density measured by laboratory 1196,5 kg/m^3 were used for the tests.
Bulk density declared by manufacturer: 1190 kg/m^3.

Thickness of the specimens measured by testing laboratory: 3,9 mm.

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	Smart products service company limited P.R. China	FIRES-RF-017-19-AUNE	13. 03. 2019	EN ISO 11925-2: 2010 / AC: 2011

[1] Test specimens were conditioned according to EN 13238 before the reaction to fire tests.

3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 30 s)	$F_s \leq 150$ mm	12	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant

* Specimens main surface and bottom edge were exposed to flame. 6 specimens were cut in longitude direction, 6 specimens were cut in crosswise direction.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.3 of EN 13501-1: 2007 + A1: 2009.

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FIRES-CR-067-19-AUPE

4.2 CLASSIFICATION

The product, Acrylic Product, , Material: PMMA, Colour: transparent, in relation to its reaction to fire behaviour is classified:

E

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets / particles is:

-

The format of the reaction to fire classification for construction products excluding floorings is:

Fire behaviour		Smoke production			Flaming droplets	
E	-	-	-	,	-	-

Reaction to fire classification: E

4.3 FIELD OF APPLICATION

This classification is valid for the following end use applications:

Composition	Change of composition is not allowed
Thickness [mm]	Change of thickness is not allowed
Bulk density of sheets [kg.m^{-3}]	Change of bulk density of sheets (1190 kg.m^{-3}) is allowed within production tolerances.
Used substrate materials	Products can be used without substrate.

5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký
leader of the testing laboratory

SKÚŠOBNÉ LABORATÓRIUM • PRÜFLABORATORIUM • TESTING LABORATORY
FIRES
The Experts on Fire Safety
-1-

Signed:

Martin Kráľ
technician of the testing laboratory