

**EUMirror PMMA Mirrors**  
Technical Datasheet  
**ANNEX 1**

In the following 4 pages we make available the

**Reaction to fire classification report**  
**FIRES-CR-118-20-AURE**  
*by Fires S.r.o.*

related to the polymethyl methacrylate solid sheets  
**PMMA Akrylon®**

used for all the  
**EUMirror PMMA Mirrors**

Note: AKRYLON is a TradeMark of Polycasa.

The processes employed by EUMirror to convert Akrylon sheets into mirrors do not alter any of the physical or mechanical characteristics of the Akrylon sheets. Consequently, the fire reaction properties of the Polycasa Akrylon sheets remain identical for the EUMirror PMMA mirrors.

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## **CLASSIFICATION OF REACTION TO FIRE**

### **FIRES-CR-118-20-AURE**

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**Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque**

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## CLASSIFICATION OF REACTION TO FIRE with extended field of application

### FIRES-CR-118-20-AURE

**Name of the product:** Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque

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## 1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque in accordance with the classes given in EN 13501-1: 2018.

Extended application of test results have been elaborated in accordance with CEN/TS 15117:2005 and is stated in extended application report [1] listed in cl. 3.1 of this document.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1 GENERAL

The element, Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque, is used in accordance with EN ISO 7823-2: 2003 in building industry, promotions, as partitions, noise barriers for expressways and after further processing as covers for lights, skylights, windows, light advertising, displays, promotional and utility items, etc.

### 2.2 PRODUCT DESCRIPTION

Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque produced from PMMA granulate and colour concentrate PMMA. Overall content of colour concentrate PMMA (acc. to clause 2.2.1) added to extruded blend is approximately 3 %.

- dimensions: (250 x 90) mm (length x width);
- thickness measured by the testing laboratory: 2,94 mm;
- density measured by the testing laboratory: (1161 ± 2) kg.m<sup>-3</sup>.

## 3. EXTENDED APPLICATION REPORTS AND TEST RESULTS IN SUPPORT OF CLASSIFICATION

### 3.1 EXTENDED APPLICATION REPORTS

No.	Name of laboratory	Name of sponsor	Report No.	Date of issue
[1]	FIRES, s.r.o., Batizovce, SK	Polycasa Slovakia s.r.o. Žilina, SK	FIRES-ER-050-20- NURE	22. 07. 2020

## 4. CLASSIFICATION AND FIELD OF APPLICATION

### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with classes defined in clause 11.3 EN 13501-1: 2018.

### 4.2 CLASSIFICATION

The product, Extruded sheets made of polymethyl methacrylate PMMA AKRYLON®, with UV protection (UVP) or without UV protection (UVT), clear, colored, opal, transparent, semi-transparent, opaque, 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 final use applications:

Thickness	Change in thickness is allowed in range from 1,8 mm to 15 mm;
Bulk density	Change in bulk density is not allowed;
Colour	Product can be produced in the form of clear, coloured, opal, transparent, semi-transparent, opaque sheets with colour shades according to clause 2.2.1;
Surface treatment	Product is produced with glossy surface treatment;
Chemical composition	Change in chemical composition is not allowed.

**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, standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký  
leader of the testing laboratory



Signed:

Ing. Samuel Skokan  
technician of the testing laboratory