

NEW



AV COMPOSITES Product  
Patent n° FR12/00197 - n°FR12/02142 - FR13/01932

100% recycled  
100% recyclable



# CONSERVATORY INSULATING PANEL

## Insulation material in THERMOPLASTIC

Always a leader in innovation, AV Composites proposes a new insulation material in THERMOPLASTIC, in variants of extruded or expanded polystyrene.

*THERMOPLASTIC* is widely known by consumers in the form of plastic bottles however, that it is only one of the multiple applications of this recyclable thermoplastic

**THERMOPLASTIC foam offers extensive possibilities used in different industries such as construction, automotive, aviation, nautical, etc...**

## Advantages

**Excellent insulation performance**

$$\lambda = 0,028 \text{ W/ (m.K)}$$

**Newest technologie, Design**

**Long lasting**

**Saving of time**

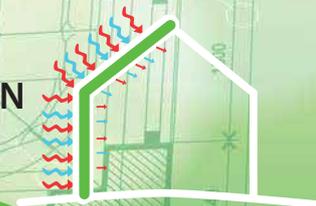
Fast and easy cutting

**A single stock of product**

Deletion of the stocks of colors

POWDER COATING  
1 Million colors  
100% RECYCLABLE

INSULATION  
cold - hot



- **Powder coating** : Thermoplastic insulation, held at temperature 2h00 at 180°C
- Ecological product : 100% recycled and 100% recyclable
- Excellent resistance in high and low temperatures (-40°C to +180°C)
- Very good properties of heat insulation thanks to excellent values in heat conduction with a  $\lambda$  of 0.028
- Excellent mechanical resistance : 30% at 100% stiffer than the traditional foam in XPS or EPS depending on the thickness and the nature of the facade
- Can be drilled, sawed, ...
- No toxic emission during manipulation or during fire : good properties FST (Fire, Smoke and Fire Toxins)
- Very low absorption of water thanks to a closed cell structure
- Excellent resistance to fatigue
- Very good adhesion of glues (polyurethane, epoxy, etc ...)
- Possibility of screwing elements into the product centre (winged screws)

### \*\*\* Specification Sheet of THERMOPLASTIC \*\*\*

#### 1- Covering - Outside facing :

Aluminium alloy 10/10 with epoxy primer

#### 2- Insulating foam :

THERMOPLASTIC - lambda of 0.028 W/(m.K) - 0.016 btu/(h.ft.°F)  
(100% recycled and 100% recyclable)

#### 3- Thickness finished panel :

24 ; 28 mm

Others thicknesses : consult us

Insulating material : 22.5 ; 26.5 mm

#### 4- Properties :

\* Thermal loss coefficient U or K :

$$U_c = K = 1.24(24) / 1.050(28) \text{ W/(K.m}^2\text{)}$$

\* Thermal Resistance R :

$$R = 0.81(24) / 0.95(28) \text{ m}^2 \cdot \text{K} / \text{W}$$

\* Fire classification :

- M1, following certification LNE N°M020389-DE/1
- F1, following certification DAKKS N°11/0304de
- B2 (Euroclass) following EN ISO 11925-2:2002

#### 5- Dimensions - Weight :

\* Width : 1200 - 1485 mm

\* Length : 2440 mm and 3000 at 7500 mm by step of 500mm

\* Weight : 6.14(24) / 6.46(28) kg/m<sup>2</sup>

#### 6- Guarantees :

\* **Company Civil Insurance**

The installation of the systems must be necessarily made with the accessories of the range AV Composites. In case of dispute, guarantees apply if the advice of use, concerned our specification sheets and the European Technical Approval (ATE) are respected. The composites panels have to be painted, so the coloring of paints has to be guaranteed in the time by the Paint Company and not by AV Composites. The advice and the technical data refer to real information and practical experience. They are offered in good faith, but without guarantee, given that the conditions and the methods of usage are not under our control. We reserve the right to bring modifications at any moment, without advance notice.