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TECHNICAL SHEET : POLY-FLAME BARRIER 1 POLY-FLAME BARRIER 2

COMPOSITION:

Mix of synthetic fibers (polyester staple).

FEATURES:

Fiber mat 100% polyester, gray melange, thermo-bonded

The product is coupled with a polyester non-woven fabric (TNT), known as California black (See annex. 1), which represents a barrier to the fire. The weight of the TNT is 150 g / sqm. It can be coupled on one or both surfaces, in this case, the finished product is called

FLAME BARRIER POLY-2

The product is chemical binders free (resins, adhesives, etc.) and has characteristics of thermo-acoustic insulation.

Ecological product, fully recyclable.

Is identified as a function of weight per unit area (g / sqm), in thickness and density (kg / mc).

The product falls into Class 1 IM for the fire behavior in the classification referred to UNI 9175 (1987) and UNI 9175/FA1 (1994). Pass the test according to Technical Bulletin 117 Section C and Part D I.

DIMENSIONS (mm):

1400 x 600 (to be verified during the project)

Tolerance \pm 5 mm

THICKNESS (mm):

20 to 60 mm

Tolerance \pm 5%

WEIGHT (g / sqm):

from 800 to 3000 (to be verified during the project)

Tolerance \pm 5%

DENSITY '(kg / mc):

30 to 50 (to be verified during the project)

Tolerance \pm 5%



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THERMAL CONDUCTIVITY

$$\lambda: 0.0351 \text{ W m}^{-1} \text{ K}^{-1}$$

THERMAL RESISTANCE:

$$R: 1.138 \text{ W m}^{-2} \text{ K}^{-1}$$

PACKING:

- Plates in packs of 15 sheets, polythene welded
- NB The packing can 'be customized with the brand of the Customer

AREAS OF USE:

- Building-Thermo-Acoustic Barriers

NOTE: Density of product > 40 kg / mc improve the thermo-acoustic performances of the same.



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Annex 1 CALIFORNIA NERO

PRODUCT DESCRIPTION AND USE:

Panel consists of a mat of synthetic fibers.

Used as a flame barrier in the fields of furniture, clothing, automotive, household appliances, construction, etc.

Reaction to fire

- The California can withstand a temperature of 1250 ° C for 30 seconds without melt or drip; carbonizing is self-extinguishing.
 - The product falls into Class 1 IM for the fire behavior in the classification referred to UNI 9175 (1987) and UNI 9175/FA1 (1994).
 - Passes the test according to Technical Bulletin 117 Section C and Part D I.
- #### 1.2 Behavior washing
- The product is washed in water at 90 ° C.

CHARACTERIZATION OF THE PRODUCT

Physical characteristics:

Mat consisting of a synthetic fibers mix.

The cohesion of the fibers is obtained by needle punched.

The product is black

Weight

The weight of the material is related to the surface and is expressed in g / sqm.

The product can be supplied with weights ranging from 130 g / m² to 400 g / m² with a tolerance of + / -7%.



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Thickness

| Grammage [g / sqm] | Thickness [mm] |
|--------------------|----------------|
| 130 ÷ 200 | 2-3 |
| 250 ÷ 300 | 3-4 |
| 300 ÷ 400 | 4-5 |

Chemical and physical-chemical
(Ref. Oeko-Tex Std 201 M1/99)

Requirements

- PH aqueous extract 5.9 4.0 ÷ 90
- Formaldehyde free and partially granted no detectable ≤ 300
- Pentachlorophenol no detectable ≤ 0.5 ppm
- 2,3,5,6, Tetrachlorophenol not detectable ≤ 0.5 ppm
- o-phenylphenol no detectable ≤ 100 ppm
- carcinogenic aromatic amines are not detectable not detectable
- Dyes allergenic / carcinogens dispersed not detectable not detectable

Requirements

- Organotin compounds not detectable ≤ 10 ppm
- Carriers are not detectable chloro ≤ 10 ppm
- Color fastness to water 5 3 *
- Color fastness to perspiration 5, 3 -4 *
- Odor no odor no odor stranger stranger

(*) Table 5: no exhaust on witness

Table 1: Intense exhaust on witness

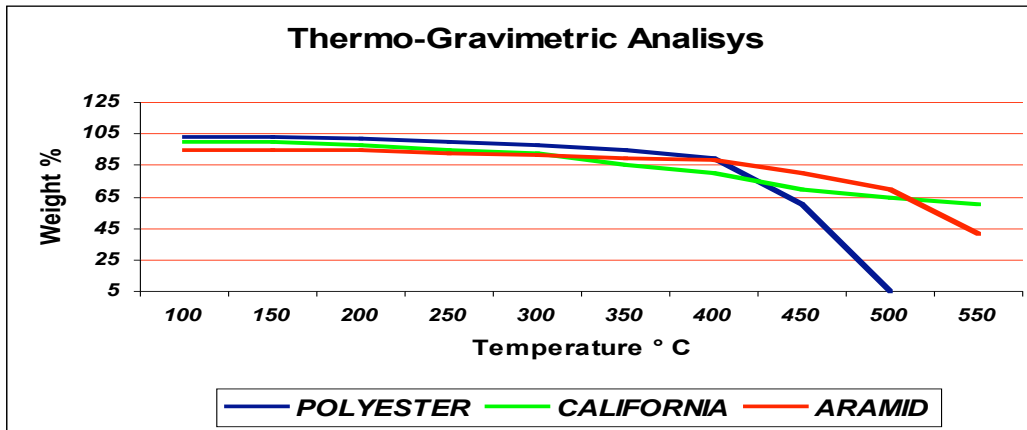
PACKAGING

The product can be supplied in rolls in height from 100 cm to 400 cm packed with polyethylene film and bearing inside a cardboard tube to the appropriate height

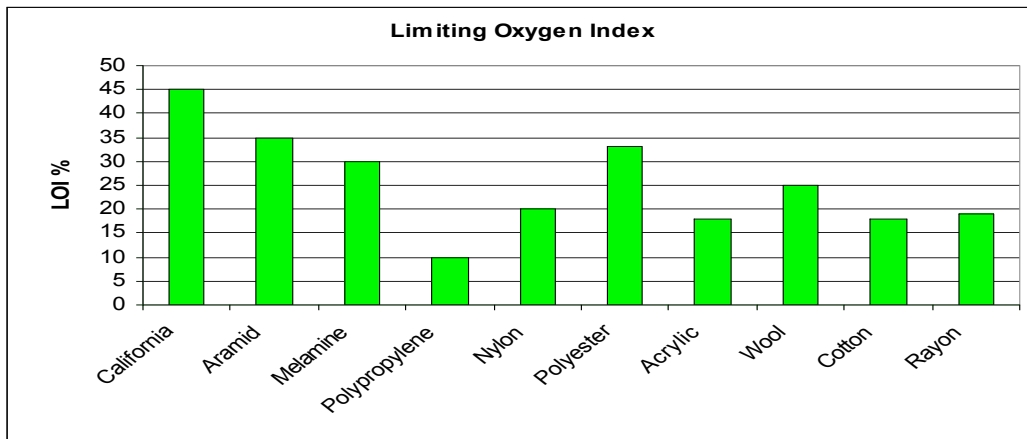


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Weight loss at high temperatures



Limit Oxygen Index (LOI): minimum of oxygen necessary to support combustion.

