

# POLIETILENE ESPANSO 20/22 Kg/m<sup>3</sup>

## 1. DESCRIPTION

The product is obtained by hot rolling under controlled conditions of at least two layers of polyethylene film obtained by extrusion and expansion of polyethylene grains of low density in cells with enclosure structure. The product is classified as polymers, is characterized by a high elasticity, low permeability to liquids, low thermal conductivity, and sound-absorbing properties, resistance in time, while being rot-proof and insensitive to the action of insects and rodents.

It is an ecological product, contains no toxic substances and has no radioactive emissions, is 100% recyclable.

## 2. USE

Expanded polyethylene products are elements of low density insulation. Using solutions:

- For achieving thermal insulation systems for closure elements of the buildings, made with flexible cellular materials, thermal and phonic protection, as filling layer, which can not be subjected to static loads;
- For civil and industrial buildings (exterior and interior walls, for thermo and phonic insulating of suspended ceilings with additional finishing, insulating plates)
- For achieving thermal insulation and soundproofing in pipelines, tunnels and storage tanks, with the maximum use temperature of 80 ° C
- The products meet the requirements of Law no. 123 / 05.05.2007, regarding the construction quality, required to be maintained throughout product use.
- It is a product that complies with the European standard SR EN 16069:2015. Thermal insulating products for buildings. Industrial products made of polyethylene foam (PE).Specification

## 3. RANGE OF PRODUCTS

Thickness(mm)	Density (kg/m <sup>3</sup> )	Dimensions (mm)		
		Width (mm)	Length (mm)	
10	20	1200	2000	
15	20	1200	2000	
20	20	1200	2000	
25	20	1200	2000	
30	20	1200	2000	
40	20	1200	2000	
50	20	1200	2000	
60	20	1200	2000	
70	20	1200	2000	
80	20	1200	2000	
90	20	1200	2000	
100	20	1200	2000	
<b>Tolerances</b>	<b>- / +5 %</b>	<b>+/- 3 %</b>	<b>-0 / + 4%</b>	<b>-0 / + 3%</b>

- Do not start the isolating process until the construction works are not over yet! If the isolation is being applied on a floor which has a heating installation built in, a test for the pressure of the heating installation must be executed in advance.
- The base where it will be applied the isolation must be smooth, stable, well dry, clean.
- Before beginning the applying process, it should be verified the dimensions of the spaces where it will be inserted the isolation to be sure that the thickness of the isolation mentioned in the project is respected.

#### **6. Packaging, labelling, storage, handling, transport**

Film rolls are delivered packed in polyethylene bags.

Each roll is marked with identification data by client demands (company's name, product code / product's references, size, manufacturing date, lot number etc).

The storage is made on pallets in clean warehouses, dry, ventilated, protected from direct sunlight, at least 3 m away from any direct source of heat.

Handling is done with caution so as not to damage the packaging, product integrity and qualitative and quantitative identification of the product.

Vehicle transport is clean and covered to protect from dust and the elements, properly ventilated so as to allow removal of any residual accumulations of isobutane due the technological process and the maturation of the film EPE.

#### **7. Quality inspection**

Quality inspection is done on lots for sale, the lot being the quantity which has the same identification code.

For each lot for sale are verified the technical parameters, packaging and labelling way.

The lot parameters are checked on a sample extracted according to the statistical control, according **SR ISO 2859-1 / 2009**, with the following control plan: AQL=4, Nv.=II, normal control trough simple sample.

#### **8. Guarantees**

The term of guarantees is 24 months since the date of the production, if the client / handler respects the storage and transport regulations in order to keep the quality and quantity integrity of the products from the moment of delivery.