

# 112/IGN

## 1- Definition

112/IGN is open-celled, impregnated polyurethane foam for acoustic insulation. It's absorbed a mineral component which increases the ability of flameless; it has a great performance in ignition resistance tests. It does not support combustion, melt and drip. It is not affected by any bacteria and doesn't shelter. The foam shape and mineral structure never changes. The products have a uniform appearance, high sound absorbing properties and thermal properties. It meets Class 0 as flame behavior standards.

## 2- Description

- The product is produced as sheets; die cut parts or kits.
- Thicknesses can be from 5 mm to any thickness required.

The tolerance regarding thickness is  $\pm 1$  mm for the products up to 15 mm and  $\pm 2$  mm for the products of thickness 20 and above.

## 3- Technical Data

### A. Physical Specifications:

Specification	Value
Density	90–100 Kg/m <sup>3</sup> .
Thickness	From 3 mm to 55 mm in block
Tensile Strength	>75 kpA.
Tension Capacity	% 130
Thermal Conductivity	0,048 W/m/K.
Thermal Resistance ( short usage )	-30 °C, +130 °C
Thermal Resistance ( regular usage )	-30 °C, +100 °C

### B. Fire Resistance Test Summary:

Property	Value
Building Regulations	Class 0
Fire Safety	BS 476 part 6 & part 7
ASTM D-2863	45% min.
Limited Oxygen Index	
Directive 95/28/EC Burning behavior of materials used in the interior construction of certain categories of motor vehicle.	Horizontal burning rate: 0 mm/min Annex IV & V are met.

### C. Possible Post Treatments:

The product is available with a self-adhesive backing and a wide variety surface finishing. The product can be supplied in composite form with lead or polymeric barriers and damping sheets.

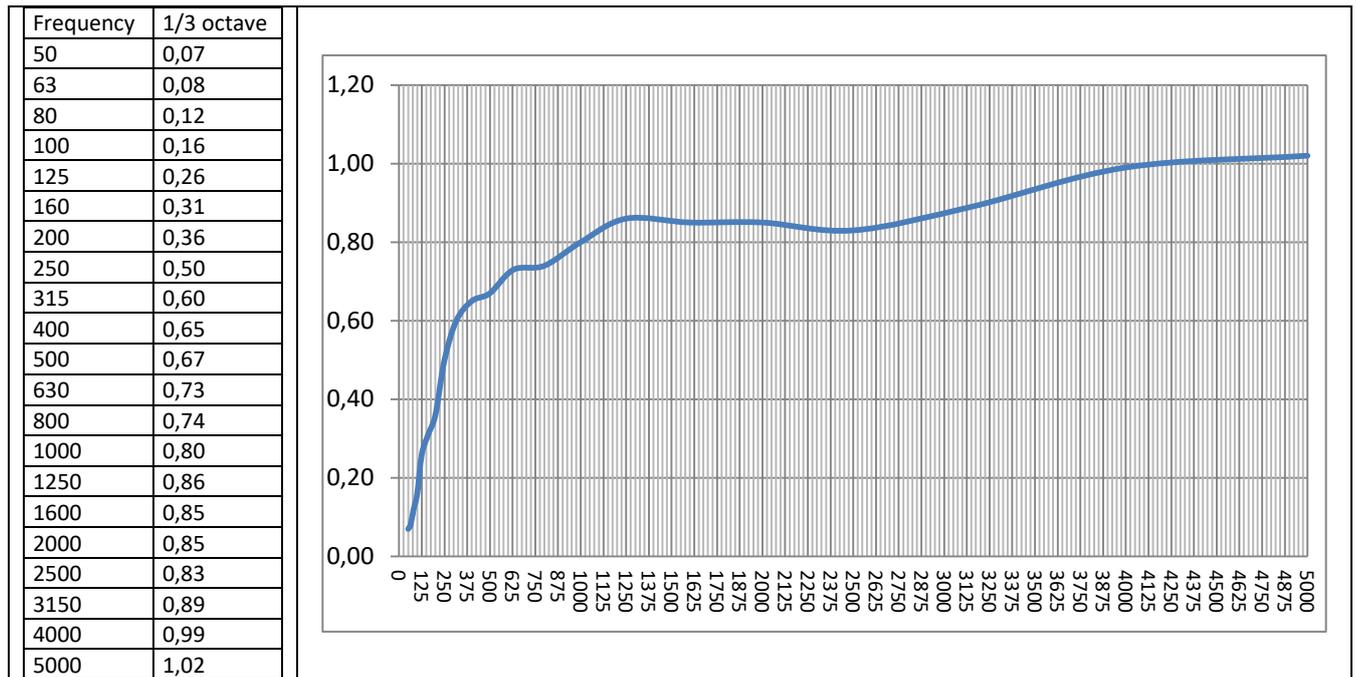
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## D. Sound Absorption Values:

50 mm Procell plain; Sound Absorption Coefficients

Rating according to **TS EN ISO 354 : 2007; TS EN ISO 11654:2002**

Measurement of sound absorption coefficient in a reverberation room.



Weighted sound absorption coefficient is  $\alpha_w = 0,75$  (L) according to TS EN ISO 11654.

## 4- Installation

When needed, the sheets and rolls can be cut easily using a sharp blade.

## 5- Application

- Gen-set enclosures
- Air compressor enclosures
- Heating and Ventilation; Air-duct systems
- Seating & Furnishing
- Marine Industry
- Heavy Vehicles
- Automotive Industry
- Room acoustics