



## PURE-KUSTIK



### Introduction

The PURE-KUSTIK panel range is made from recycled polyester fibres. PURE-KUSTIK reduces noise by absorbing sound waves in interior spaces.

### Principle

Thanks to high sound absorption values, better acoustics are created in rooms where noise reverberation is a problem.

Once fitted, the panels improve the comfort and intelligibility of verbal exchanges in a room. The fibre size and manufacturing process are designed to achieve optimum porosity and tortuosity for the absorption of acoustic energy.

Polyester wool contains no toxic substances. The material creates no dust and contains no chemical binders. And it offers excellent dimensional stability after cutting.

### Applications

- Perforated metal ceilings
- Suspended ceilings
- Islands & baffles
- Lightweight partitions
- Machine and equipment enclosures
- Office furniture industry



**Technical specifications**

Characteristics	Units	Values
Nominal thickness	mm	40±3
Density	kg/m <sup>3</sup>	20-40

**Fire rating**

Characteristics	Standard	Value
Fire rating	ISO 13501-1	B - s1, d0

**Shapes, designs and colours**

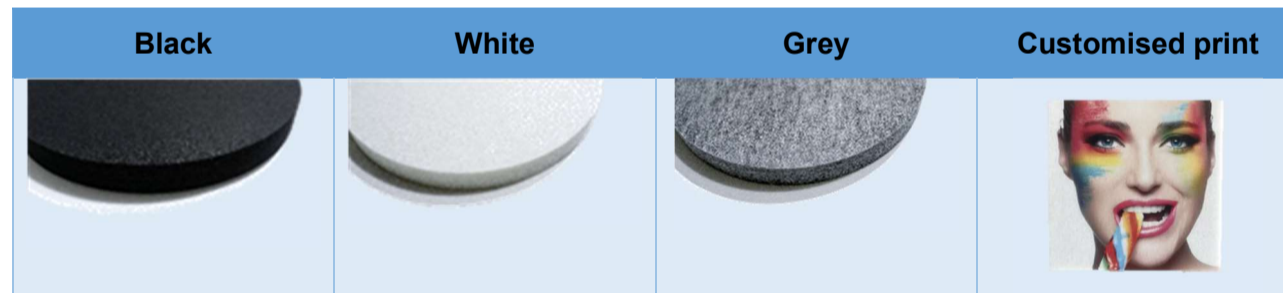
Rectangle (mm x mm)		Square (mm x mm)	Circle (mm)
300 x 600	600 x 1000	400 x 400	Ø 300
300 x 1000	600 x 1200	600 x 600	Ø 400
300 x 1200	800 x 300	800 x 800	Ø 600
400 x 600	800 x 400	1000 x 1000	Ø 800
400 x 1000	800 x 600	1200 x 1200	Ø 1000
400 x 1200	800 x 1000		Ø 1200

*Other formats and dimensions available on request*

Cutting tolerance: +/- 10 mm for dimensions ≤ 600 mm

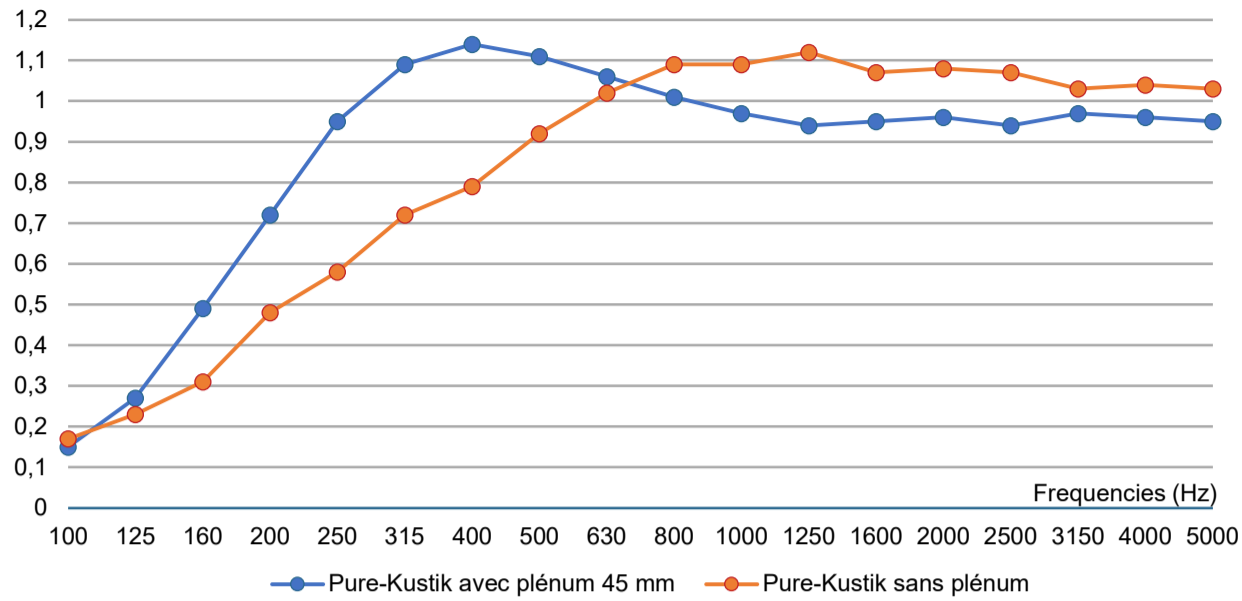
Cutting tolerance: +/- 20 mm for dimensions > 600 mm

The product is flexible, holds its shape and has straight edges. It also offers excellent moisture resistance.



**Acoustic performance**

Sound absorption indices in accordance with ISO 354



Pure-Kustik with 45 mm air gap			Pure-Kustik with no air gap	
Hz	PURE-KUSTIK No air gap		PURE-KUSTIK 45 mm air gap	
	One-third octave	Octave	One-third octave	Octave
100	0.17	0.25	0.15	0.30
125	0.23		0.27	
160	0.31		0.49	
200	0.48	0.60	0.72	0.90
250	0.58		0.95	
315	0.72		1.09	
400	0.79	0.90	1.14	1.10
500	0.92		1.11	
630	1.02		1.06	
800	1.09	1.00	1.01	0.95
1000	1.09		0.97	
1250	1.12		0.94	
1600	1.07	1.00	0.95	0.95
2000	1.08		0.96	
2500	1.07		0.94	
3150	1.03	1.00	0.97	0.95
4000	1.04		0.96	
5000	1.03		0.95	
<b>αw</b>	0.90		1.00	
<b>Absorption rating</b>	A		A	

Sources: BEB2.M.6077 acoustic test and acoustic simulation

Equivalent absorption area in accordance with ISO 11654

PURE-KUSTIK	
Hz	A <sub>T</sub> (m <sup>2</sup> )
100	3.7
125	3.3
160	3.9
200	3.5
250	4.2
315	5.1
400	5.7
500	6.2
630	7.3
800	7.4
1000	7.5
1250	7.9
1600	7.8
2000	8.0
2500	7.9
3150	7.7
4000	7.4
5000	7.9

Source: BEB2.M.6077 acoustic test

#### Installation: baffle or island

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The panels can be fixed mechanically or glued. The surface on which the panel is to be installed must be clean and free from oil, dust and grease. Always carry out a test with the adhesive to ensure good compatibility and adhesion, while carefully following the manufacturer's gluing instructions.



The panels can be installed using TECSOUND suspension kits (please contact us for further details). For optimal acoustic correction, please leave a 5 cm gap between the edges of the panels.

The material can withstand temperatures up to 120 °C.

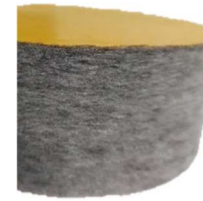
The polyester wool can be cut with a ceramic knife, scissors, filament, band saw or foam cutter.

Maintenance: The surface can be easily cleaned with a vacuum cleaner and a soft brush.

### Installation: adhesive modules

The PURE-KUSTIK range is also available with an adhesive surface. Protected by a yellow peel-off film, panels can be stuck directly to the substrate.

The panels must be glued to clean, dry substrates, free from traces of oil, grease, dust or solvent. Once the adhesive's protective film has been removed, even pressure should be applied to ensure adhesion across the entire surface and to avoid the formation of air bubbles. Please note that panels cannot be repositioned once installed.



### Environmental characteristics



The PURE-KUSTIK range is manufactured without VOC or formaldehyde emissions: A+ rated product (ISO 16000).



Product made from recycled synthetic fibres, up to 60 recycled plastic bottles per m<sup>2</sup>.

### Optional extras

- Addition of a black film on the surface to make it water- and oil-repellent
- Addition of aluminium on the surface to act as a heat shield (heat reflection)
- Available with one self-adhesive side
- Other options (digital printing, shapes and sizes) available on request, subject to minimum order

### Installation method and storage conditions

The products should be stored in enclosed, dry areas that are not subject to wide variations in humidity.

Storage and transport conditions:

- PURE-KUSTIK panels should be stored indoors, away from the elements.
- No other products or objects should be stored on top of the boxes, which can be stacked on each other.

### Specific instructions

The information provided in this data sheet is based on our experience and we accept no liability for it, given the diversity of materials found on the market and the various application processes, which are beyond our control. We strongly advise you to carry out preliminary tests on your materials, according to your specific application, to determine whether the product meets your requirements.

The material generally complies with health and safety and environmental requirements. For further information, please refer to the Safety Data Sheet.

TECSOUND reserves the right to amend the composition and terms and conditions of use of its materials, and consequently their price, without prior notice, in light of developments in terms of knowledge and technology. Consequently, orders will only be accepted under the terms and conditions and technical specifications in effect on the date of receipt of the order.