

Acoustic elements



## SilentPET

The acoustic system produced from recycled PET and textiles for a wide range of applications and perfect acoustics



*SilentPET – “Recycling Acoustic”*



**dis**  
**DOYLE INTERIOR  
SYSTEMS**

**Excellent acoustic values**

high sound absorption, a wide product range and easy to install... all this makes SilentPET<sup>®</sup> the optimum acoustic solution for any type of room.

**Environment friendly materials**

SilentPET<sup>®</sup>-elements are mainly produced from recycled PET bottles and depending on type also mixed with textile recycling. The waste from production is going 100% back into the production processes and helps to protect our environment.

**No environmental problems**

SilentPET<sup>®</sup> can be reused. The material has been used in automotive industry for many years without any known problems. The skin-friendly material does not cause allergies, skin irritation or respiration problems. SilentPET is odorless and does not emit gases. Moreover, it is resistant to moisture and is not prone to mold and vermin infestation.

**Various models**

Productions in a variety of compositions, colours and dimensions according to customer requirements are feasible. Even 2D and 3D shapes can be manufactured to your specifications.



**SilentPET<sup>®</sup> - 100% Advantages**

**Excellent features**

- outstanding sound absorption values
- very sturdy and impact resistant
- resistant to moisture
- not prone to mould and vermin infestation
- in a variety of shapes and colour available
- printable surface
- usable for ceiling- and wall installations

**Environmentally friendly production**

- made of recycled raw materials such as recycled PET and textile fibers
- resource- and environment friendly produced
- waste of production is recycled into the production process
- material can be reused

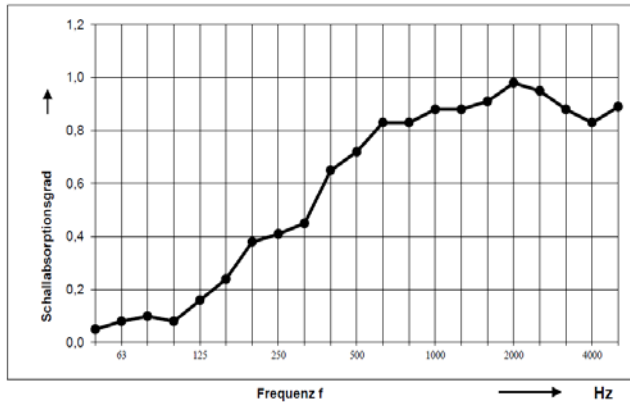
**Health aspect**

- Does not cause allergies or skin irritation
- No respiratory symptoms
- No toxic ingredients
- No odour or gas emission

**SilentPET is available in Home-, Office- und Industrial versions**

## Acoustic tests acc. ISO DIN 354 installed directly to ceiling

### SilentPET® RECwhite, non-woven, 50mm, 1700g/m2



**Sound absorption  $\alpha_w$  0.70**  
(absorption class C ISO 11654)

Test report 1307-001-11 from 9.3.2011,  
acc. ISO DIN 354, direct installation without  
suspension.

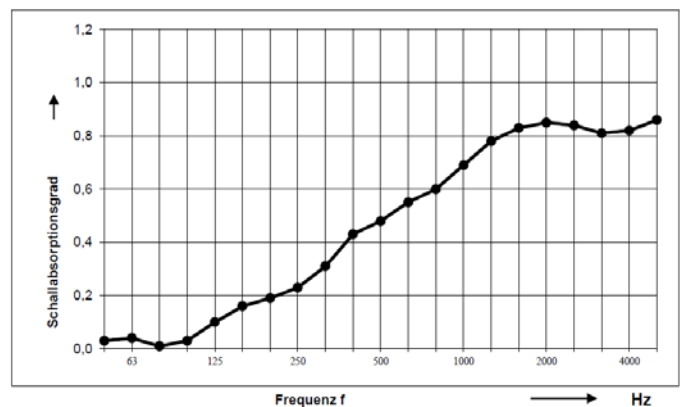
For suspended mounting an improvement to  
sound absorption class A or B can be expected.

### SilentPET® Ceiling REC white 25mm

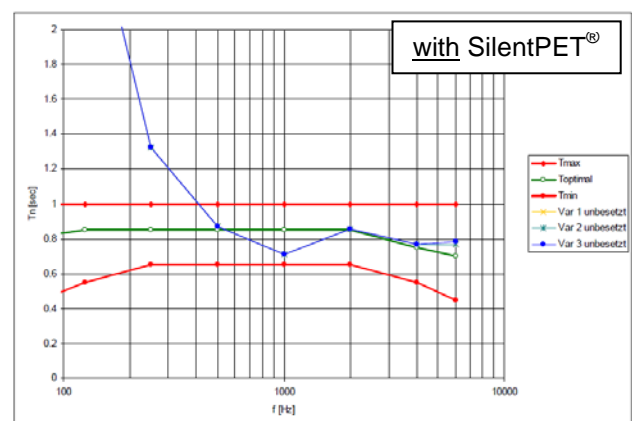
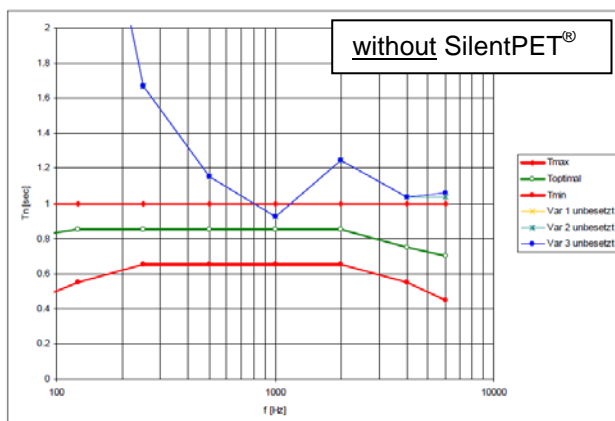
**Sound absorption  $\alpha_w$  0.50**  
(absorption class C ISO 11654)

Test report 1307-001-11 from 9.3.2011,  
acc. ISO 354, direct installation without  
suspension.

For suspended mounting an improvement to  
sound absorption class A or B can be  
expected



### Sample calculation of reverberation time in a room (135m2) without and with SilentPET® RECwhite, 50mm



— Red: recommended limits / — Green: optimum value for the room / — Blue: calculated actual value

### SilentPET<sup>®</sup> Home & Office

Home & Office version is specially designed for living and recreation rooms, office, commercial and retail buildings, or other areas where emphasis is placed on aesthetics. The surface is covered with white felt which is reflecting the light, creating a comfortable room feeling.

Due to a simple and discreet design, the Home & Office version can be installed in almost every room, adapting nicely with the existing room design

A coloured surface is available on customers request instead of the white felt surface. This also allows to highlight special areas or to create a colourful and warm design in a room.

SilentPET<sup>®</sup> Home & Office is available from stock in standard sizes and can also be delivered in a round or any other 2D shape on customers demand.



### Applications



### SilentPET<sup>®</sup> Industry

Due to its extreme robustness and insensitivity to shock and mechanical damage, the SilentPET<sup>®</sup> Industry is an excellent choice in demanding environments such as factory buildings, industrial buildings, warehouses and many other demanding environments.

High moisture area is not a problem for SilentPET<sup>®</sup> Industry panels, since SilentPET<sup>®</sup> Industry is resistant to moisture and is not prone to mold.

SilentPET<sup>®</sup> Industry panels are supplied without felt-lamination and presented as RECwhite in a plain white or as TEX version in a grey color with colored fibers.

The industry version is available from stock in standard sizes and can also be delivered in a round or any other 2D shape on customers demand.

