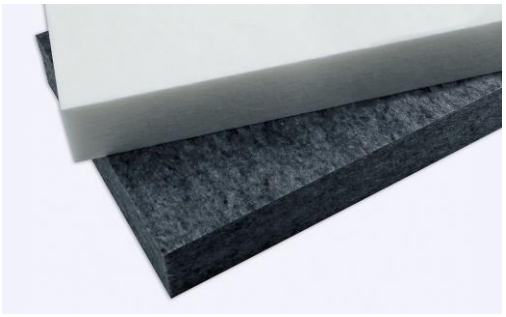
Technical Information

Noiseflex® Conso



Noiseflex® Conso is an acoustic membrane made of 100 % PET staple fibre. Recycled PET bottles are also used to produce this product, for instance. The fibres are thermally and mechanically strengthened without the use of chemical binding agents. Product class I is achieved for baby articles in accordance with the Oeko-Tex Standard 100. A special process is used to smoothen and compact the surface on both sides. This lends the membrane panels inherent rigidity, for use also as ceiling panels, for instance.

Application:

- Absorber panels for direct gluing or suspended as a baffle system or ceiling panel
- As filler material for Noiseflex® Picture, Noiseflex® Dividi or Noiseflex® Cube
- Insert panels in grid ceilings
- Thermal insulation
- Filter material, etc.

TEXTILES VERTRAUEN
Geprüft auf Schadstoffe
nach Oeko-Tex® Standard 100
94.0.9942 Hohenstein

Physical properties:
Flat fibre textile material made from polyester fibres in white colour or with smoothened surface on both sides (50 mm sheet) also in grey.
Not soluble in fat or water. Odourless.

Standard dimensions:

Length and width:	2400 x 1200 mm	Thicknesses:	25 mm (smoothened both sides)
	1200 x 1200 mm		50 mm (smoothened both sides)
	600 x 1200 mm		40 mm (not smoothened)
	600 x 600 mm		

Other dimensions are available on request.

Technical data:

Material		100 % Polyester fibres	
Fire behaviour		B1 – flame resistant	in accordance with DIN 4102-1
		C, s3, d0	in accordance with DIN EN 13501-1
		(tested only for colour white without coating)	
Thermal conductivity		≥ 0.034 W / m·K	in accordance with DIN EN 12667
Weight per unit area	25 mm panel,	1250 g / m² (smoothened both sides)	
	50 mm panel,	2500 g / m² (smoothened both sides)	
	40 mm panel,	1200 g / m² (not smoothened)	

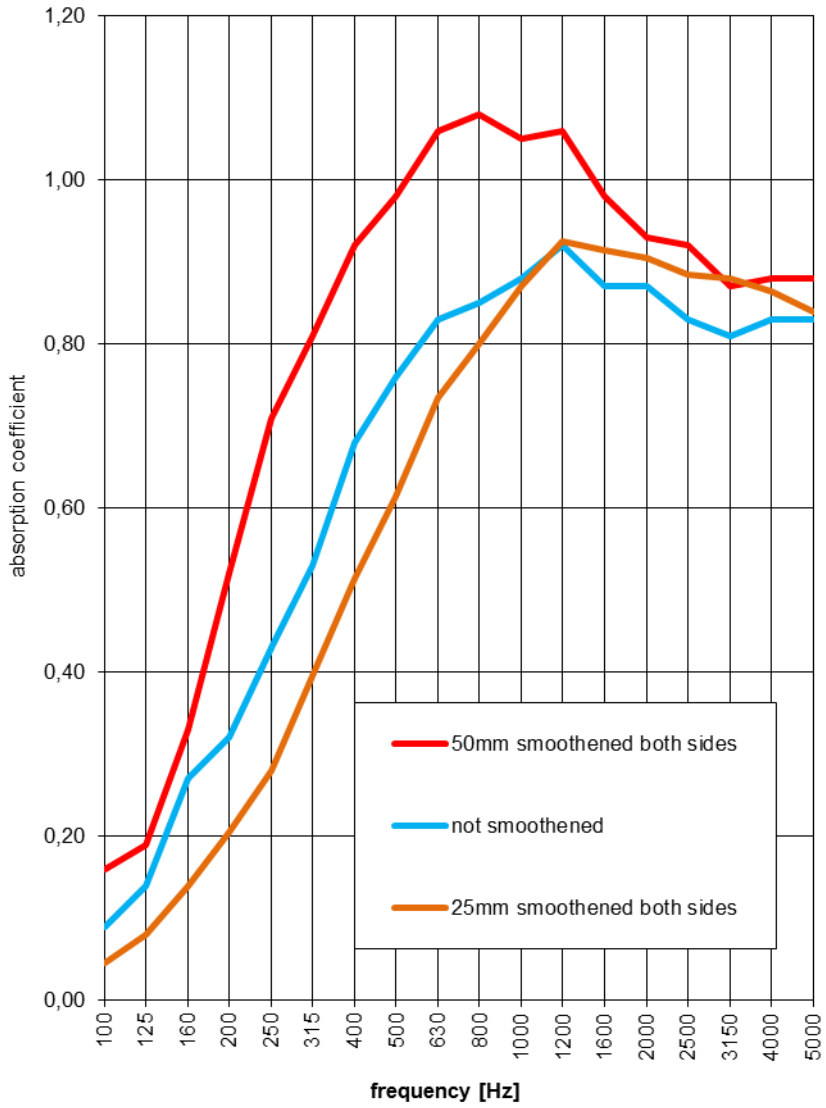
Colours:
Noiseflex® Conso is available in standard white.
Smoothened on both sides in 50 mm thickness also available in grey.
With a special method, we can dye the surface of Noiseflex® Conso in diverse colour hues, according to RAL hues, for example.

Sound absorption of Noiseflex® Conso in reverberation chamber in accordance with DIN EN ISO 354

Absorption Coefficient α						
Frequency [Hz]	25 mm smoothened both sides		40 mm not smoothened		50 mm smoothened both sides	
	third octave	octave	third octave	octave	third octave	octave
	α_s	α_p	α_s	α_p	α_s	α_p
100	0.05	0.10	0.09	0.15	0.16	0.25
125	0.08		0.14		0.19	
160	0.14		0.27		0.33	
200	0.21	0.30	0.32	0.45	0.52	0.70
250	0.28		0.43		0.71	
315	0.40		0.53		0.81	
400	0.52	0.60	0.68	0.75	0.92	1.00
500	0.62		0.76		0.98	
630	0.74		0.83		1.06	
800	0.80	0.85	0.85	0.90	1.08	1.00
1000	0.87		0.88		1.05	
1200	0.93		0.92		1.06	
1600	0.92	0.90	0.87	0.85	0.98	0.95
2000	0.91		0.87		0.93	
2500	0.89		0.83		0.92	
3150	0.88	0.85	0.81	0.80	0.87	0.90
4000	0.87		0.83		0.88	
5000	0.84		0.83		0.88	

	25mm smoothened both sides	40mm not smoothened	50mm smoothened both sides
Weighted sound absorption coefficient α_w	0.60 (M,H)	0.75	0.95
Sound absorption class (DIN EN ISO 11654)	C	C	A
Noise Reduction Coefficient NRC (ASTM C 423)	0.66	0.74	0.91

Sound absorption of Noiseflex® Conso in reverberation chamber in accordance with DIN EN ISO 354



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