

OPTIC diamond

As at: 03/14/2024

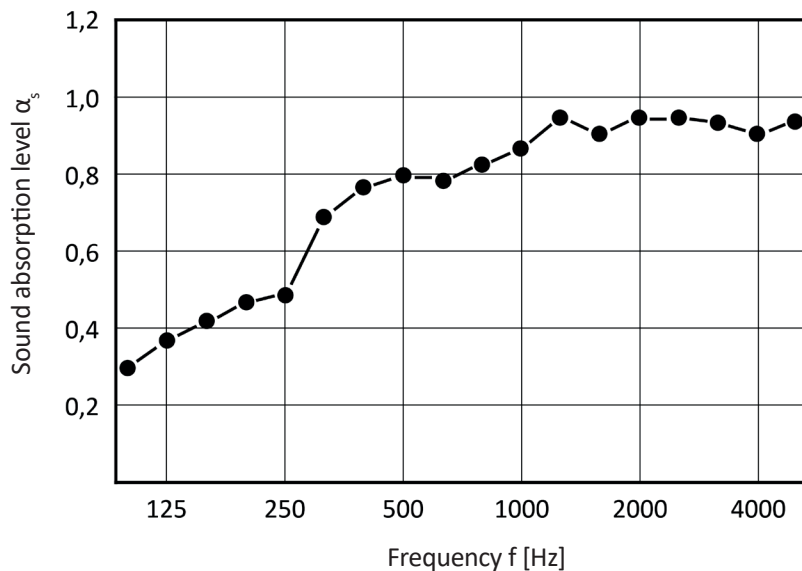
OPTIC diamond has a characteristic three-dimensional surface texture. The fabric's high absorption values make it suitable for a range of interior uses – such as wall or ceiling elements and curtains, for example.

Use	acoustics & soundproofing, wall & ceiling, curtains
Colour	off-white, customised colours available on request
Material	100 % Polyester FR, Trevira CS
Fabric weight	545 g/m ² +/- 5 %
Fabric width	standard: 155 cm +/- 5 %
Fabric thickness acc. to DIN EN ISO 5084	2,34 mm
Fire resistance rating acc. to DIN EN ISO 4102	flame retardant standard B1
Air permeability acc. to DIN EN ISO 9237	341 l/m ² /s
Light fastness acc. to DIN 53952	> 6
Abrasion rating acc. to ISO 12947-1	60.000 Martindale
Care	40° delicates cycle; wear white cotton gloves when fitting the fabric; surface dirt can be removed by carefully patting or vacuuming the fabric; carefully pat the fabric with a damp cloth to remove dirt – do not rub; seal edges with heated fabric edging scissors
Specific flow resistance acc. to DIN EN ISO 29053	R _s = 442 Pa s/m

The technical specifications are valid for four months from receipt. Technical specifications may differ for dyed fabric.



Sound absorption level acc. to DIN EN ISO 354



Testing method details:

Measured as a gathered curtain (100 % additional fabric) acc. to DIN EN ISO 354 Section 6.2.1 and Appendix B.5 (without sealed frame)

Testing method: Type G-150:

- Median distance to wall: 150 mm

General measurement information:

Specimen area: 12,40 m²
 Reverb. room volume: 203,3 m³
 Reverb. room surfaces: 212,3 m²

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Frequency [Hz]	Sound absorption level acc. to ISO 354 α_s	Practical sound absorption coefficient α_p	Frequency [Hz]	Sound absorption level acc. to ISO 354 α_s	Practical sound absorption coefficient α_p
100	0,30		800	0,83	
125	0,37	0,35	1000	0,87	0,90
160	0,42		1250	0,95	
200	0,47		1600	0,91	
250	0,49	0,55	2000	0,95	0,95
315	0,69		2500	0,95	
400	0,77		3150	0,94	
500	0,80	0,80	4000	0,91	0,95
630	0,79		5000	0,94	

Classification acc. to DIN EN ISO 11654: **classified sound absorption coefficient $\alpha_w = 0,80$ (H)**; sound absorption class: B

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