

Name: **2" Polysorb**
 Size Available: 5' x 9', 5' x 10'
 Thickness: 2 inch
 Core Density: 5.5
 NRC: 0.95
 Face Type: Ironed or unironed
 Core Color: Charcoal/Black Face, Charcoal, Heather, Light Grey, Cloud, White
 FSI: Class A Flame Spread Index

Description of the test specimen:

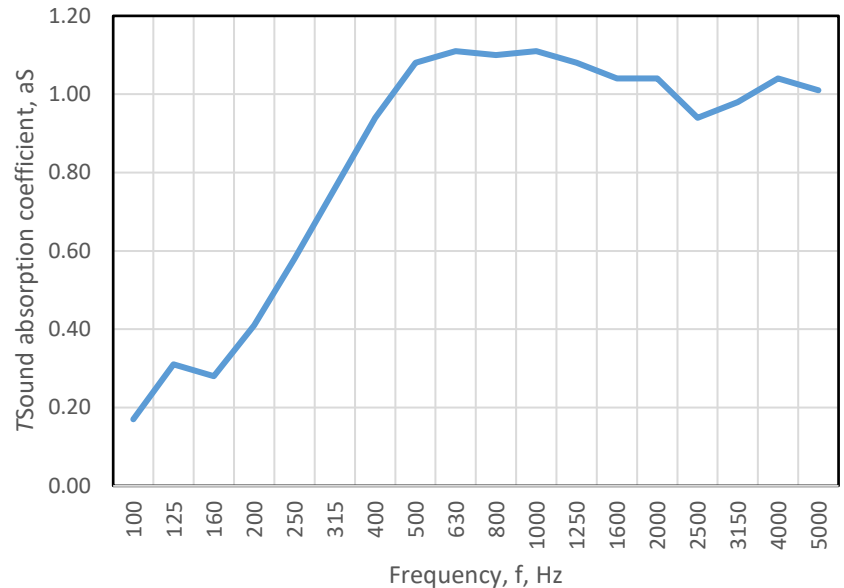
Name: PS2
 Specimen Size: 24" x 48" x 2"
 Mount Method: Type A Mounting Method
 Frame Construction: On the Floor

The shape of the reverberation chamber and its diffusion treatment are described in Annex D.

Area of test specimen: **10.80 m²**
 Air temp in the test room: **22 °C**
 Air humidity in test room: **63%**

Number of sound source positions: **2**
 Number of microphone positions per sound source position: **8**
 Type of noise used: **Pink random noise.**
 Type of mounting used: **TypeA**

Frequency f Hz	T 1 - Empty Chamber	Tc - With Sample	One-Third Octive
100	5.15	1.16	0.17
125	2.76	2.05	0.31
160	2.96	1.88	0.28
200	3.74	2.75	0.41
250	3.71	3.86	0.58
315	3.43	5.10	0.76
400	2.60	6.31	0.94
500	3.99	7.22	1.08
630	4.26	7.39	1.11
800	4.73	7.36	1.10
1000	5.03	7.40	1.11
1250	5.45	7.21	1.08
1600	6.17	6.94	1.04
2000	6.97	6.97	1.04
2500	7.75	6.27	0.94
3150	8.61	6.53	0.98
4000	10.25	6.97	1.04
5000	12.20	6.76	1.01



Practical sound absorption coefficients

Hz	Xp
125	0.05
250	0.15
500	0.45
1000	0.75
2000	0.95
4000	0.95

<i>Ratings according to ISO 11654</i>	
Weighted sound absorption coefficient:	0.95
Sound absorption class:	A

<i>Rating according to ASTM C423 - 99</i>	
Noise Reduction Coefficient =	0.95
Sound Absorption Average =	0.93

It is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve.

Evaluation based on laboratory measurement results obtained by an engineering method.