

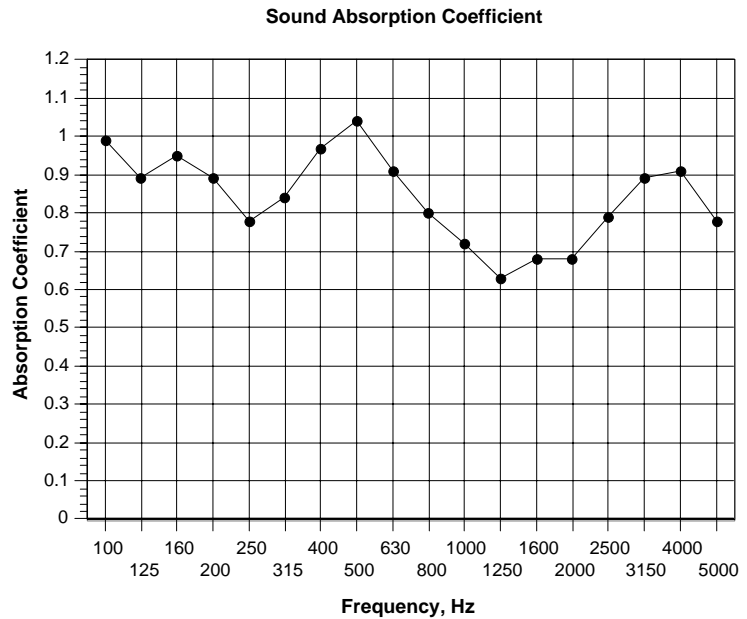
[See SRL report C/21311/R01 for full details](#)

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Plastil UK
Test Date: 25/01/2012
Empty Room: **Temperature:** 16.1 °C **Humidity:** 51 %RH **Pressure:** 1012 mbar
Room with Sample: **Temperature:** 15.9 °C **Humidity:** 49 %RH **Pressure:** 1012 mbar
Sample Description: Cabinets laid on backs - filled with files with shutters closed.

Mounting Method: A
Sample Area: 11.82 m²
Chamber Volume: 300 m³

Test 12				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	6.27	3.13	0.66	
63*	4.46	2.65	0.63	n/a
80*	5.36	2.97	0.62	
100	7.35	2.65	0.99	
125	7.35	2.84	0.89	0.95
160	6.53	2.60	0.95	
200	6.87	2.76	0.89	
250	7.40	3.09	0.78	0.85
315	7.52	2.96	0.84	
400	6.76	2.61	0.97	
500	5.57	2.32	1.04	0.95
630	5.17	2.42	0.91	
800	5.61	2.69	0.80	
1000	6.09	2.96	0.72	0.70
1250	6.04	3.13	0.63	
1600	5.47	2.86	0.68	
2000	4.82	2.67	0.68	0.70
2500	4.21	2.31	0.79	
3150	3.47	1.96	0.89	
4000	2.82	1.71	0.91	0.85
5000	2.20	1.52	0.78	
6300*	1.58	1.24	0.62	
8000*	1.26	1.02	0.64	n/a
10000*	0.84	0.74	0.49	



a_w 0.75(L)
Class C
Calculated to EN ISO 11654:1997
NRC 0.80
Calculated to ASTM C 423-01
* Denotes frequencies outside the range covered by BS EN ISO 354:2003
T1, empty room reverberation time
T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

v4.2



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