

TECHNICAL DATA SHEET

Thermobreak[®] Acoustiplus[™]

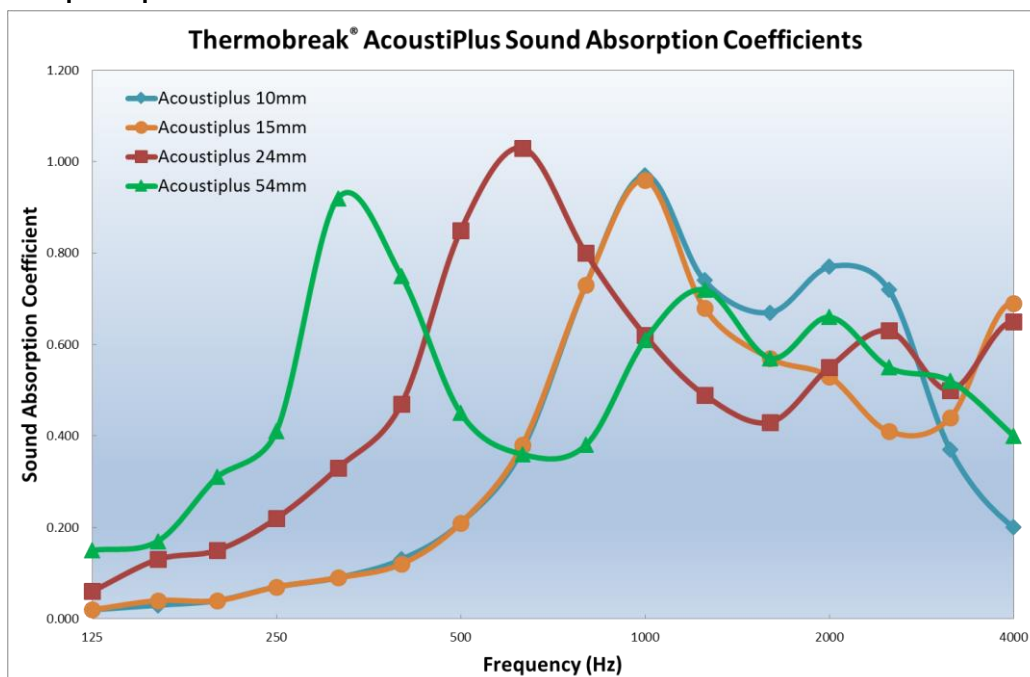
Material:	Physically (irradiation) crosslinked partially open cell polyolefin foam with factory applied reinforced aluminium foil and optional pressure sensitive adhesive backing
Density:	25 kg/m ³ (foam core only)
Thermal Conductivity: (ASTM C518)	0.035 W/m/°K (@ 23°C mean temperature)
Water Absorption by Volume: (ASTM C1763, Procedure B, 24h)	< 0.3% v/v
Resistance to Fungi: (ASTM G21)	Zero Growth
VOC Emission Rate: (ASTM D5116)	Low VOC emitting ("Green Star")

Performance Indices:
(ISO 354)

Thickness	SAC (α_w)	NRC
10mm	0.30 (MH)	0.50
15mm	0.30 (MH)	0.45
24mm	0.55 (M)	0.55
54mm	0.55	0.55

Operating Temperature Range:	-80 °C ~ +100 °C (no adhesive)
Maximum Recommended Design Air Velocity:	20.3 m/s (4000 fpm)
Air Friction Losses:	Comparable to galvanised steel duct

Sound Absorption Spectra:



FIRE AND SMOKE PERFORMANCE

AS 1530 Part 3		COMPLIES (AS 4254)
	Ignitability Index:	0
	Spread of Flame Index:	0
	Heat Evolved Index:	0
	Smoke Developed Index:	0 – 1
ASTM E84 (UL 723):		COMPLIES (NFPA 90A & B)
	Flame Spread Index:	≤25
	Smoke Developed Index:	≤50
DIN 54837	Burning Test	COMPLIES (DIN 5510:2) Classification S4, SR2, ST2
ISO 5658 Part 2	Flame Spread	COMPLIES (EN 45545:2 R1, HL3 RATING, 5 – 25mm)
ISO 5659 Part 2	Smoke Density	COMPLIES (EN 45545:2 R1, HL3 RATING, 5 – 25mm)
	Smoke Toxicity	COMPLIES (EN 45545:2 R1, HL3 RATING, 5 – 25mm) COMPLIES (DIN 5510:2) FED < 1
ISO 5660 Part 1	Heat Release Rate	COMPLIES (EN 45545-2 R1, HL3 RATING, 5 – 25mm)
ASTM E162	Surface Flammability	COMPLIES (PRIIA/NFPA 130)
ASTM E662	Smoke Density	COMPLIES (PRIIA/NFPA 130)
ASTM E1354	Heat Release Rate	COMPLIES (PRIIA)
BSS 7239 (Boeing)	Smoke Toxicity	COMPLIES (PRIIA)
BS 476 Parts 6 & 7		CLASS 0
UL 181 Part 11	Burning Test	COMPLIES (AS 4254)

TOLERANCES

The following tables list tolerances for thickness, density and width of standard Thermobreak[®] Acoustiplus[™] products:

Thickness	
Nominal Thickness	Tolerance
10mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
24mm	-1.0mm / +2.5mm
54mm	-2.0mm / +3.5mm
Other thicknesses and/or tolerances subject to confirmation.	

Density* (foam only)	
Nominal Density	Tolerance
25 kg/m ³	± 10%
*Applies to the foam core. The density of Thermobreak with reinforced aluminium foil will be higher.	

Width (Sheet)	
Nominal Width	Tolerance
1200mm	-0 / +20mm
Other widths and/or tolerances subject to confirmation.	

COUNTRY OF MANUFACTURE

Thermobreak[®] Acoustiplus[™] insulation is manufactured in Thailand.

ENQUIRIES

If you require any further information, please consult your local distributor or contact us at

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This information on Sekisui Foam International products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

Recommendations as to methods of post fabrication, application and use of Sekisui Foam International products are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Foam International products and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Foam International products are utilised or for any application.

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