



PROMASOUND[®]-TL



Product description

PROMASOUND[®]-TL is a flexible barrier for acoustic insulation, with no heavy metals content and totally lead and PVC free.

PROMASOUND[®]-TL is an innovative latest generation visco-elastic product; it provides high performance acoustic insulation with low flame spread characteristic.

It is MED certified and USCG approved.

Properties

- easy and fast installation
- a safe and harmless material with no lead and other harmful materials according to 67 /548/CEE regulation and subsequent amendments

Technical data

Colour		Irregular light grey
Nominal density (tolerance) (UNI 7092, ASTM D1817, EN 53479)	kg/m ³	2100 (±10%)
Chemical composition		Plastic polymer with mineral fillers
Reaction to fire (thickness 1 to 5mm)		Low spread of flame
Quality assurance		Module D. Low spread of flame
Service temperature		
Continuous	°C	-30 to 90
Steady state	°C	-50 to 110
Peak	°C	130
Thermal conductivity (EN 12667:2001 - EN 12664:2001)	W/mK	0.213
Best application	°C	15-20 (ambient temperature)
Hardness (tolerance) (UNI ISO 868, ASTM D2240)		80 (Shore A) (±10%)
Breaking load (UNI 6065, ASTM D412)	N/mm ²	> 1.0
Elongation (UNI 6065, ASTM D412)	%	> 40
Storage		Indoor, minimum temperature of 5°C in its original pack

¹⁾ Certificate number and details available upon request.

Acoustic properties

Thickness	mm	1	1.5	1.75	2	2.5	3	4	5
R_w index (ISO 717/1)	dB	23	25	26	27	29	31	33	35
Thickness	mm	1.5			1.75		3		
Dynamic stiffness (UNI EN 29052-1:1993)	Extrapolat. resonance	586.6			537		372		
Dynamic stiffness (MIP 110)	MN/m ³	2397.7			2138.4		1027.1		
Young modulus (MIP 110)	E [Pa]	3.60			3.74		3.08		
Poisson coefficient (MIP 110)	MPa	1.02			-		0.74		

Dimensions (standard)

Thickness (tolerance ±10%)	mm	1.0	1.5	1.75	2.0	2.5	3.0	4.0	5.0
Roll length (tolerance ±5%)	mm	100	70	0	50	50	50	30	25
Width (tolerance ±2%)	mm	1000	1000	1000	1000	1000	1000	1000	1000
	mm	1200	1200	1200	1200	1200	1200		

PROMASOUND[®]-TL can be supplied, on demand, in sheets with different dimensions or customised and shaped as per customer's drawing.

Workability, alternative facings, acoustic properties: see page 2.



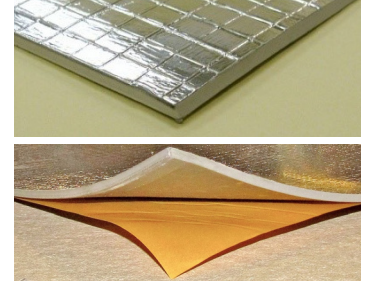
PROMASOUND®-TL

Workability

PROMASOUND®-TL is flexible and can be cut with cutters, scissors, knives or by using circular blades. It can be easily installed and adapted to specific tailor-made shapes to meet specific customer's requirements. It can be pre-cut as per drawings and supplied in self-adhesive version. It does not release any dust or aerial particles.

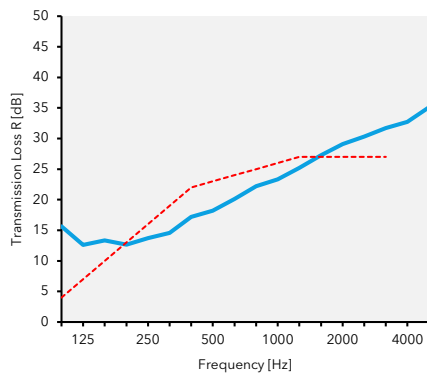
Alternative facings

PROMASOUND®-TL can be delivered with smooth, reinforced or embossed aluminium foil 30µm thickness (PROMASOUND®-TL ALU, upper image) with (lower image) or without self-adhesive..

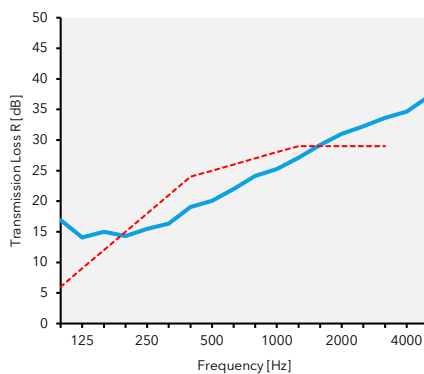


Acoustic properties

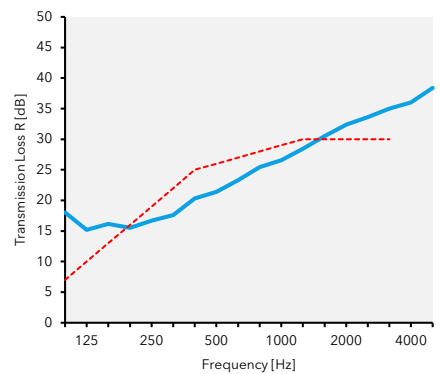
1mm thickness, $R_w=23$ [dB]



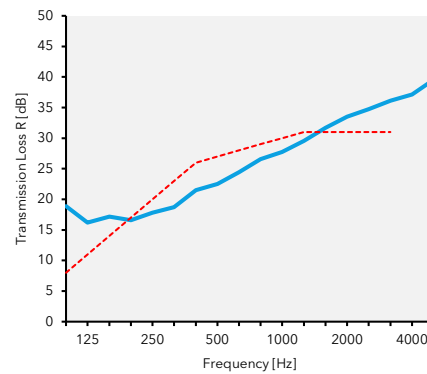
1.5mm thickness, $R_w=25$ [dB]



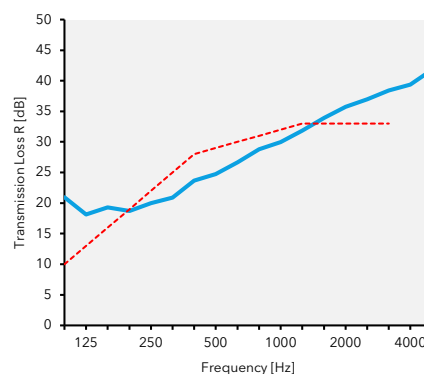
1.75mm thickness, $R_w=26$ [dB]



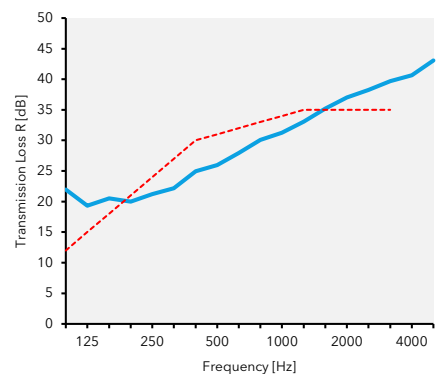
2mm thickness, $R_w=27$ [dB]



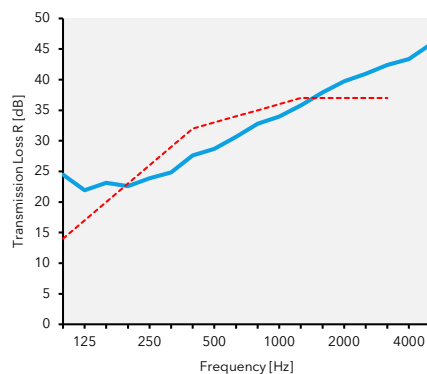
2.5mm thickness, $R_w=29$ [dB]



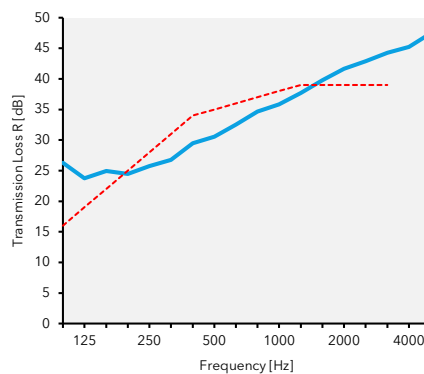
3mm thickness, $R_w=31$ [dB]



4mm thickness, $R_w=33$ [dB]



5mm thickness, $R_w=35$ [dB]



— PROMASOUND®-TL ISO 10140/2
 - - - ISO 717 Reference curve

All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any liability, our delivery and payment terms apply exclusively. Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid.
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