ISOLMER® - 260
Petrol

HBT-ISOL passion for silence

ISOLMER® - 260 Polyurethane foam mats
**Mixed cellular polyether-urethane mats
for structure-borne sound insulation and vibration protection**

Static load: up to N/mm²
0.260

Dynamic load: up to N/mm²
0.400

Load peaks: up to N/mm²
4.000

Specification
- Low natural frequency
- High insulating effect with shocks / vibrations
- Low dynamic stiffening factor
- Constant characteristic values over a long service life
- Resistant to concrete grouts, oils, diluted acids and alkalis

eco **1** ecobau Cert.

Product- / Logistics data

Thickness mm	12.5 and 25	Stockholding	Store in a dry place, do not expose to direct sunlight
Length x width mm	1'000 x 500	Storage period	Unlimited with correct storage

Technical data

Size	Unit	Value	Test method	Comment
Mechanical loss factor		0.11	DIN 53513*	Guid value
Static E-modulus	N/mm²	1.640	DIN 53513*	Compression: 0.260 N/mm²
Dynamic shear modulus at 10 Hz	N/mm²	3.630	DIN 53513*	Compression: 0.260 N/mm²
Rebound elasticity	%	50	DIN EN ISO 8307	+/- 10 %
Residual compression set	%	< 5	DIN EN ISO 1856	50 %, + 23 °C, 70 h 30 min after unloading
Thermal conductivity	W/(m·k)	0.08	DIN 52612-1	
Specific volume resistance	Ω·cm	> 10^{11}	DIN IEC 93	Dry
Coefficient of friction with steel μ_s		0.5		Dry
Coefficient of friction with concrete μ_s		0.7		Dry
Inflammability		E	EN 13501-1	Normal flammable
Long-term temperature resistance	°C	Long-term: -30 to +70 Short-term: to +120		

* Measurement based on the corresponding standard.

Installation

| Surface	Avoid direct contact between ISOLMER® mats and materials containing plasticiser (use a release layer). Requirements storage area: Load capacity > dynamic load. No loose parts. Power troweled. Free from teeth and gravel nets. Flatness under 2-m-lath ≤ 10 mm, > 10 mm re-profiling. Clean swept (Standard SIA-271:2007)
Installation	The connection points are fully pushed. Before applying the concrete, the ISOLMER® mats are protected with a 2-ply tough PE foil (0.2 mm) and the overlap trapped to avoid cement contamination.
Screed requirement	Concrete or underlay flooring with flowable consistency as well as aerated concrete are only suitable to a limited extent and require additional, special sealing measures.
Processing instructions	The installation of ISOLMER® mats should only be carried out by trained personnel. When using auxiliary products, e.g. adhesives, the ambient temperature and humidity must meet the requirements of the auxiliary products used. The corresponding product data sheets are to be considered.
Water	When in contact with water, ISOLMER® boards absorb a certain amount of moisture, which impairs their full function with regard to structure-borne sound insulation. The ISOLMER® boards must therefore be protected against water penetration during the shell construction phase and in the final state.

Safety- and Health instructions

Safety note	The local safty requirements must be considered.
Transportation	The ISOLMER® mats are not classified as "endangered products".
Disposal	Waste code according to European Waste Catalogue Ordinance: 07 02 13. Local requirements must be considered.

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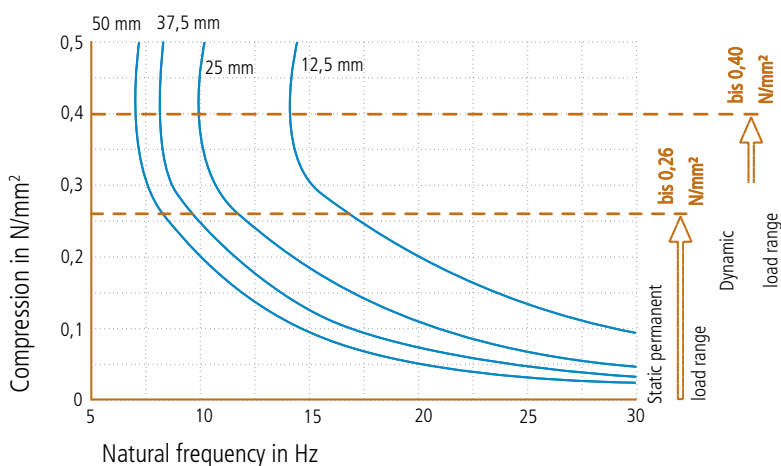*passion for silence*

ISOLMER®-260 Polyurethane foam mats
## Important physical properties for dimensioning

Load deflection curve
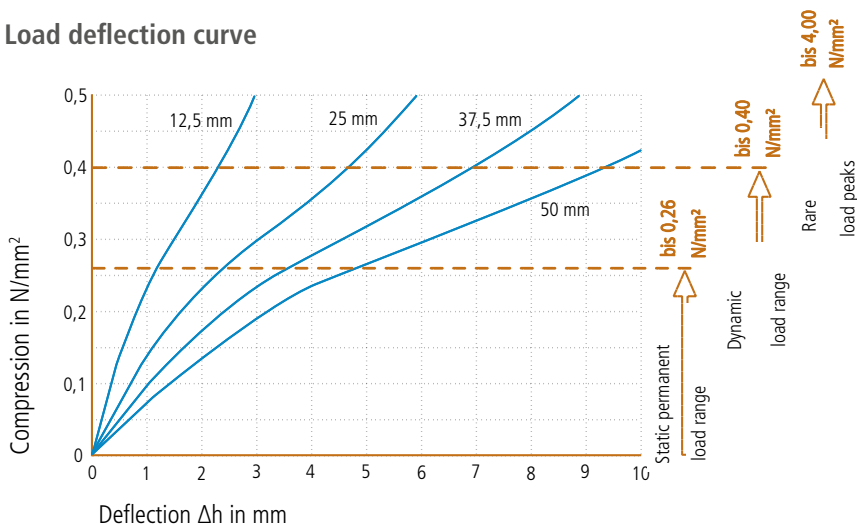
Spring characteristic curve.
Test speed v = 1 % of thickness.
Test at room temperature between flat steel plates.
Recording of the 3rd load.
Form factor q = 3.

Natural frequency

Natural frequency of a system consisting of a rigid mass and a layer of ISOLMER® on a rigid base.
Form factor q = 3.

Modulus of elasticity
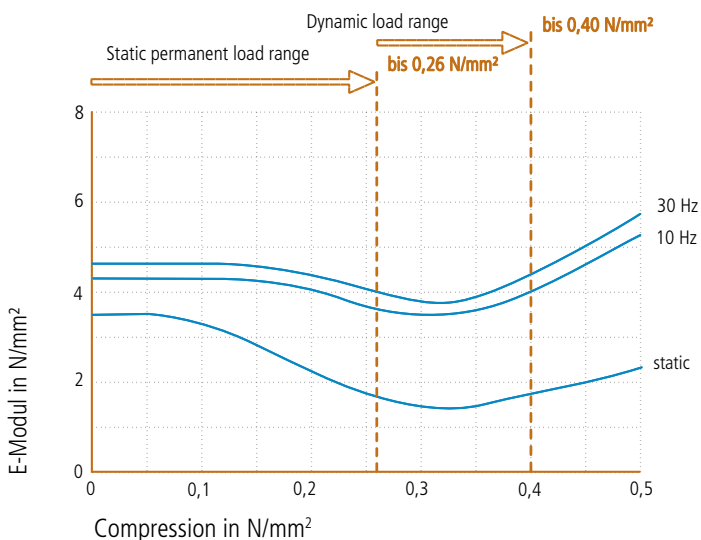
Load dependence of the static and dynamic moduli of elasticity.
Dynamic E-modulus: harmonic excitation with an amplitude of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz.
Static E-modulus: tangent modulus from the spring characteristic.
Measurement according to DIN 53513.
Form factor q = 3.

All informations and datas are based on our current knowledge and can be used as calculation or guideline values. These are dependent on manufacturing tolerances and do not constitute guaranteed properties. Changes reserved. Further technical information can be found on our website www.hbt-isol.com.