

REGUFOAM Vibration Isolation

REGUFOAM vibration is an elastic polyurethane foam designed for optimal vibration isolation. It is available in twelve different densities and various thicknesses, now including thinner options, offering even more flexibility to suit diverse needs.

REGUFOAM vibration 300plus

Load range up to 0.055 N/mm^2 . Depending on load and material thickness, natural frequencies of 9 Hz can be achieved.

Product Characteristics

Continuous static load

0.055 N/mm^2

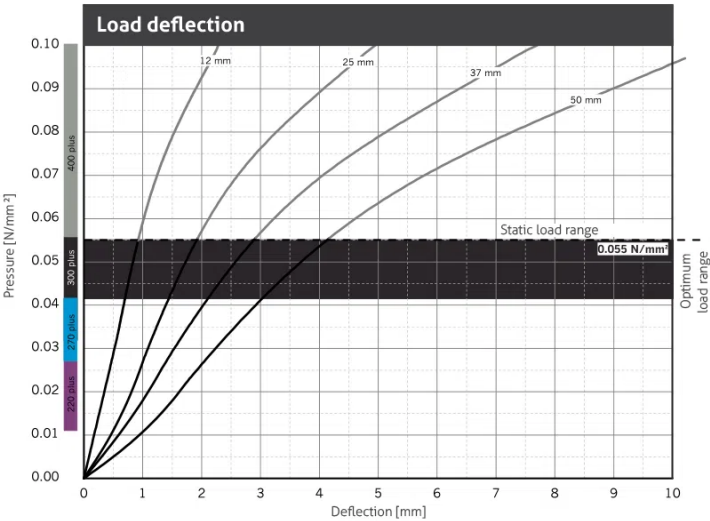
Continuous and variable loads/operating load range

0 to 0.08 N/mm^2

Peak loads (rare, short-term loads)

2 N/mm^2

Technical Specifications



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 x 300 mm.

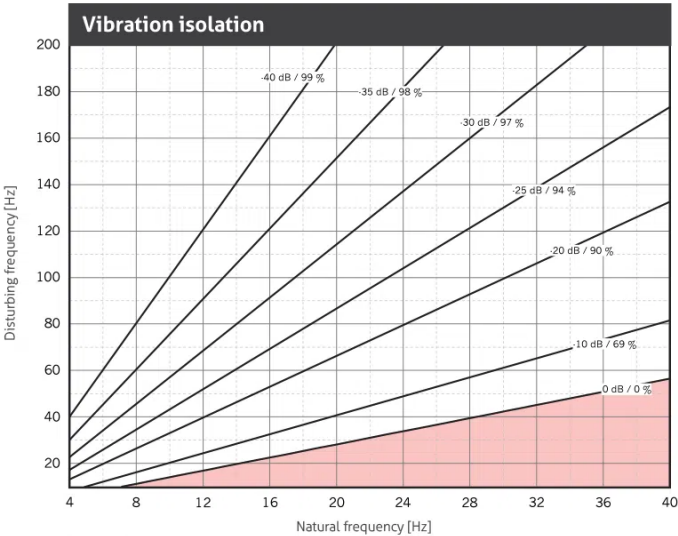
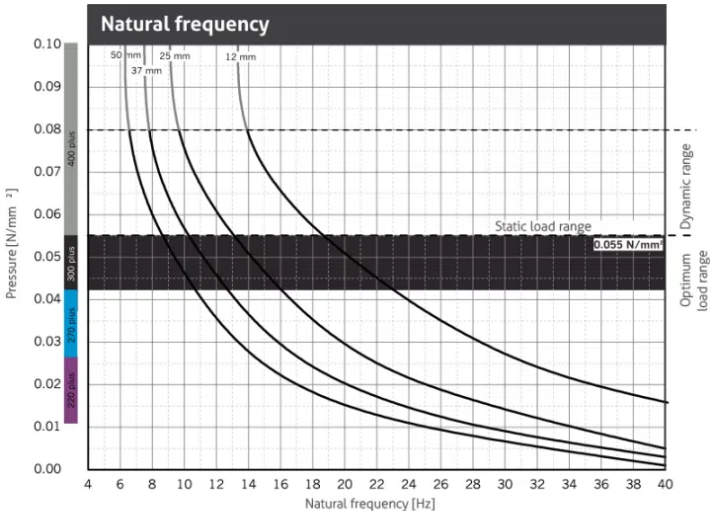
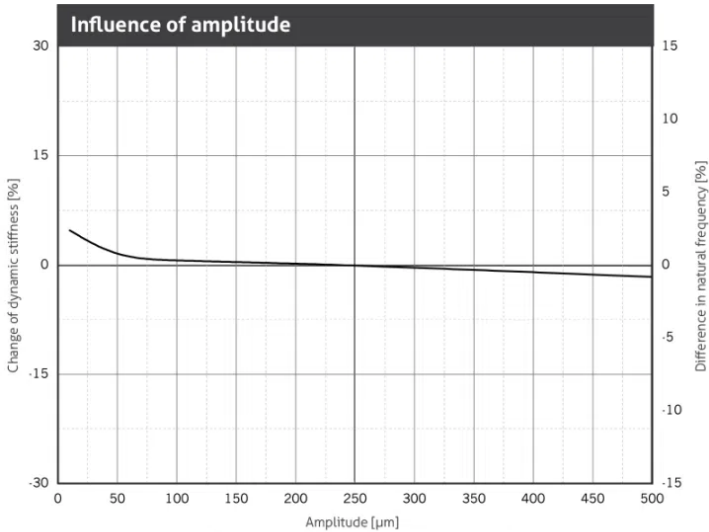


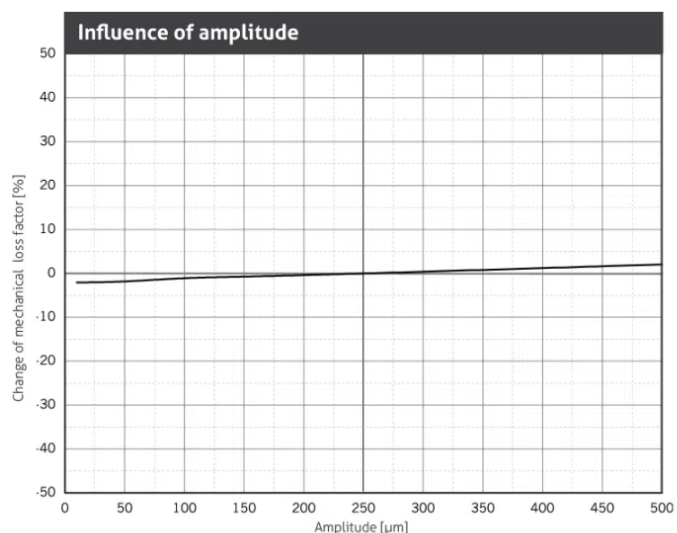
Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUFOAM vibration 300plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.



Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUFOAM vibration 300plus** on a rigid base. Dimensions of test specimens 300 x 300 mm.



Change of the dynamic stiffness due to changes in amplitudes. Average for 5 Hz, 10 Hz and 40 Hz excitation. Sinusoidal excitation at a constant mean load of 0.055 N/mm², dimensions of the specimens 300 x 300 x 25 mm. Natural frequency of a single-degree-of-freedom system (SDOF system) on a rigid base.



Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.055 N/mm^2 , dimensions of the specimens $300 \times 300 \times 25 \text{ mm}$.

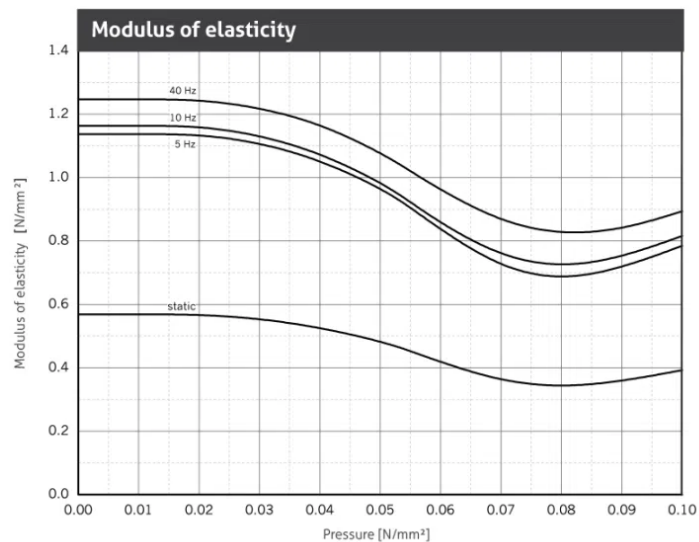


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of $\pm 0.25 \text{ mm}$. Dimensions of specimens $300 \times 300 \times 25 \text{ mm}$; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

REGUFOAM vibration 300plus

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	0.35 - 0.58 N/mm ²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	0.68 - 1.25 N/mm ²	Depending on frequency, load and thickness, see figure "dynamic stiffness"
Mechanical loss factor	DIN 53513	0.18	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.4 %	Measured 30 minutes after decompression with 50 % deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	1.2 N/mm ²	
Elongation at break	Based on DIN EN ISO 1798	240%	
Tear resistance	Based on DIN ISO 34-1	4.8 N/mm	
Fire behaviour	DIN 4102	B2	
	DIN EN 13501-1	E	
Sliding friction	REGUPOL-laboratory	0.6	Steel (dry)
	REGUPOL-laboratory	0.75	Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	82 kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	44%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	72%	dependent on thickness, test specimen h = 25 mm



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