



REGUPOL Vibration Isolation

The REGUPOL vibration range offers a portfolio of eight product types which can be used in the wide load range between 0.002 N/mm^2 and 1.5 N/mm^2 . This creates many possibilities to implement an isolation concept for projects in the field of building services and HVAC equipment, machines, pools and gyms, as well as vibration protection for buildings, especially those in close proximity to rail infrastructure.

REGUPOL Vibration 480

REGUPOL vibration 480 is a vibration isolation and structure-borne sound decoupling material for the load range up to 0.15 N/mm^2 .

Product Characteristics

REGUPOL vibration 480 is a vibration isolation and structure-borne sound decoupling material for the load range up to 0.15 N/mm^2 .

Continuous static load

0.15 N/mm^2

Peak loads (rare, short-term loads)

0.25 N/mm^2

Standard forms of delivery, ex warehouse

Rolls

Thickness: 15 mm

Length: 10,000 mm, special length available

Width: 1,250 mm

Sheets/Strips/Pads

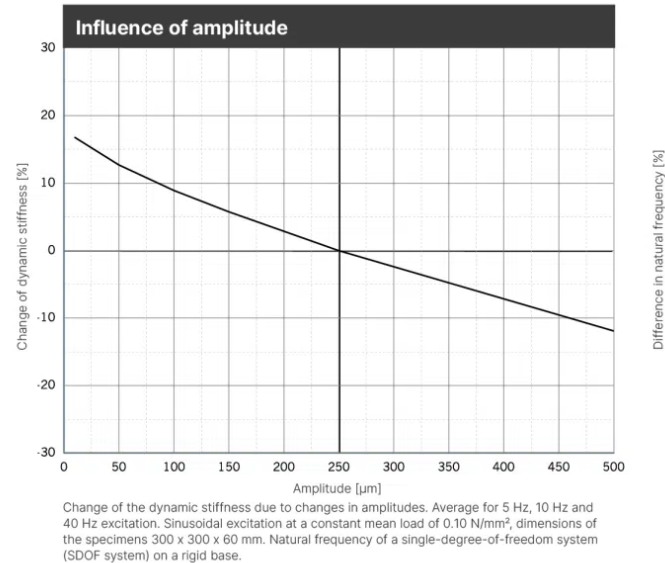
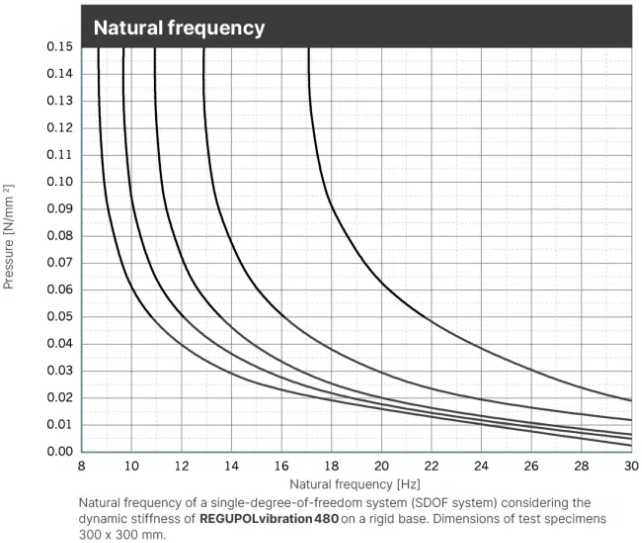
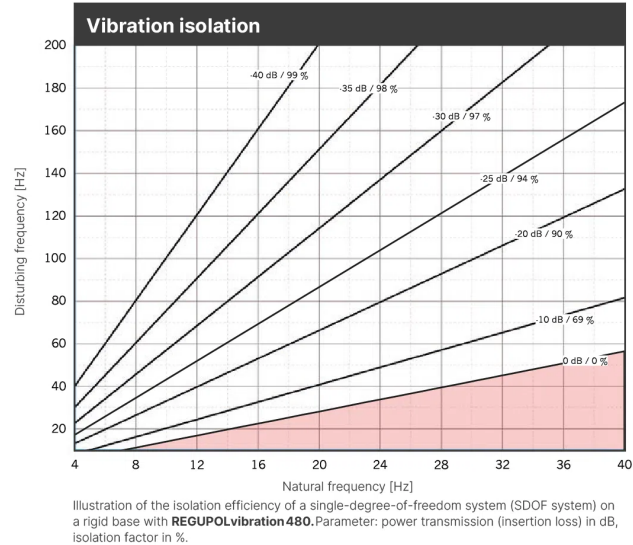
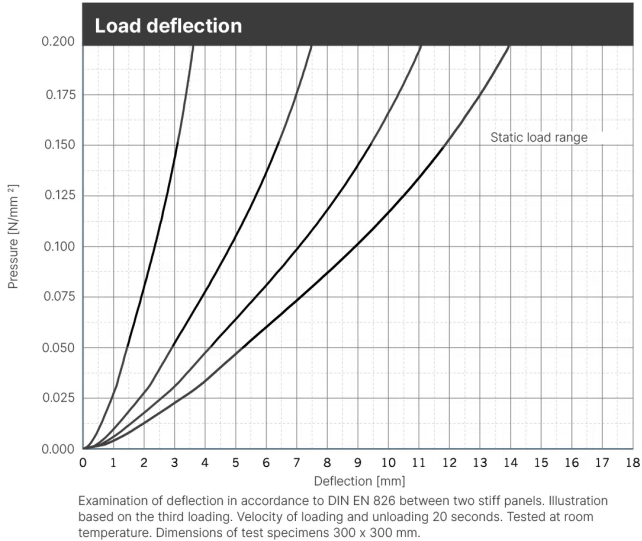
On request: Die-cutting, water-jet cutting, self-adhesive versions possible

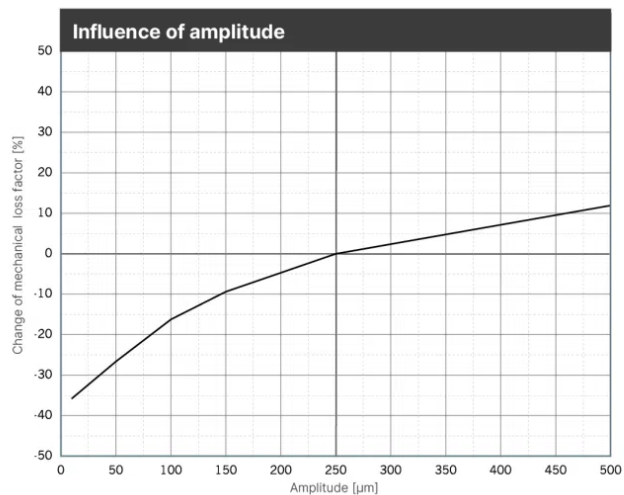
Product Applications

REGUPOL vibration 480 is used as a single layer to or double layer to achieve natural frequencies of 10 Hz, depending on load and material thickness.

- Building base isolation
- Rail track isolation
- HVAC equipment
- Machines
- Pools
- Gyms

Technical Specifications





Change of the mechanical loss factor due to changes in amplitudes. Sinusoidal excitation at a constant mean load of 0.10 N/mm², dimensions of the specimens 300 x 300 x 60 mm.

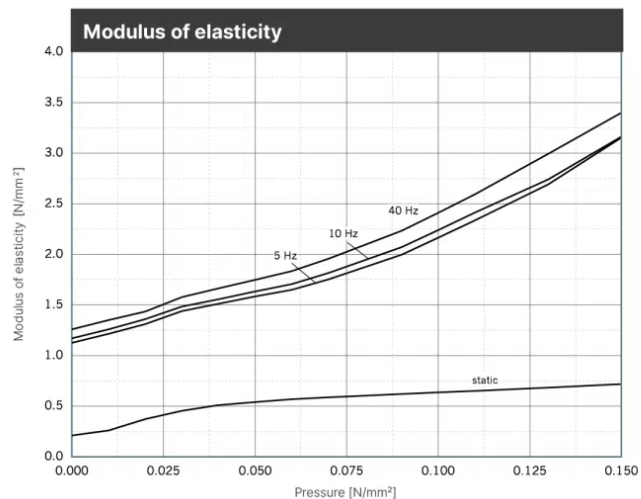


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 45 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

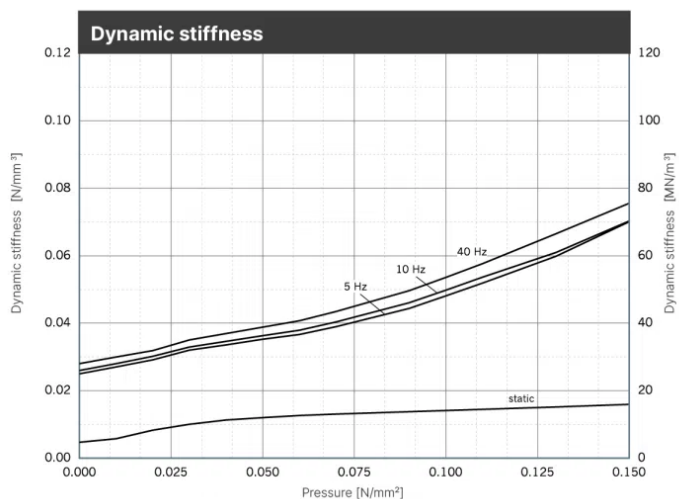
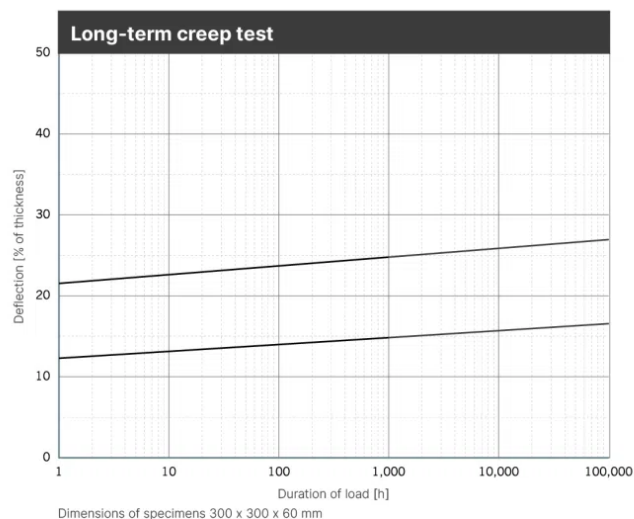


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 45 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.



Dimensions of specimens 300 x 300 x 60 mm



REGUPOL Vibration 480 specifications

regupol-vibration-480-specifications.xlsx

REGUPOL Vibration 480

Physical property	Norm	Result	Comment
Static modulus of elasticity	Based on EN 826	0.25 - 0.8 N/mm ²	Tangential modulus, see figure "modulus of elasticity"
Dynamic modulus of elasticity	Based on DIN 53513	1.2 - 3.3 N/mm ²	Depending on frequency, load and thickness, see figure "dynamic stiffness"
Mechanical loss factor	DIN 53513	0.17	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.0 %	Measured 30 minutes after decompression with 50 % deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.36 N/mm ²	
Elongation at break	Based on DIN EN ISO 1798	55%	
Tear resistance	Based on DIN ISO 34-1	4.5 N/mm	
Fire behaviour	DIN 4102	B2	
	DIN EN 13501-1	E	
Sliding friction	REGUPOL-laboratory	0.7	Steel (dry)
	REGUPOL-laboratory	0.8	Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	220 kPa	Compressive stress at 25 % deformation test specimen h = 60 mm
Rebound elasticity	Based on DIN EN ISO 8307	31%	dependent on thickness, test specimen h = 60 mm
Force reduction	DIN EN 14904	72%	dependent on thickness, test specimen h = 60 mm
Ozone resistance	DIN EN ISO 17025	Cracking stage 0	

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