

= REGUPOL

Forms of delivery

Sheets, ex warehouse

Thickness: 25 and 50 mm, special thicknesses availableLength:1,000 mmWidth:500 mm

Customized thicknesses available on request.

Technical details

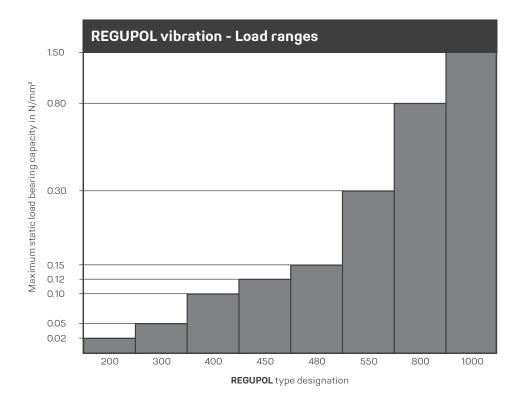
Maximum static load bearing capacity 0.120 N/mm²

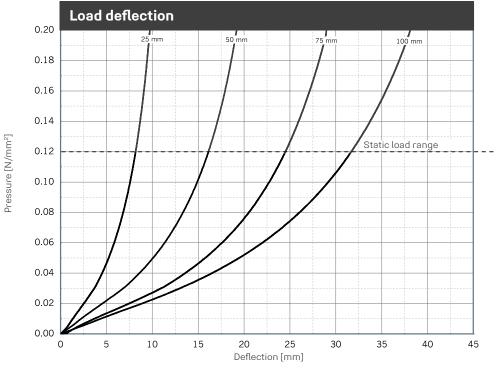
Rare, short term peak loads up to 0.180 N/mm²



N/mm²

Physical property Norm Result Comment Static modulus of elasticity Based on EN 826 0.2 - 0.4 N/mm² Tangential modulus, see figure "modulus of elasticity" Based on DIN 53513 0.45 - 2.70 N/mm² Dynamic modulus of elasticity Depending on frequency, load and thickness, see figure "dynamic stiffness" DIN 53513 Mechanical loss factor 0.17 Load-, amplitude- and frequency-dependent Based on 4.1% Measured 30 minutes after decompression Compression set DIN EN ISO 1856 with 50 % deformation / 23 °C after 72 hrs Tensile strength Based on 0.15 N/mm² DIN EN ISO 1798 40 % Elongation at break Based on DIN EN ISO 1798 Tear resistance Based on DIN ISO 34-1 1.9 N/mm Fire behaviour DIN 4102 B2 DIN EN 13501-1 Е Sliding friction 0.5 Steel (dry) **REGUPOL-laboratory REGUPOL-laboratory** 0.6 Concrete (dry) Compression hardness 83 kPa Compressive stress at 25 % deformation Based on **DIN EN ISO 3386-2** test specimen h = 50 mm Rebound elasticity Based on 42.7 % dependent on thickness, DIN EN ISO 8307 test specimen h = 50 mm Force reduction 74 % DIN EN 14904 dependent on thickness, test specimen h = 50 mm Ozone resistance **DIN EN ISO 17025** Cracking stage 0





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.

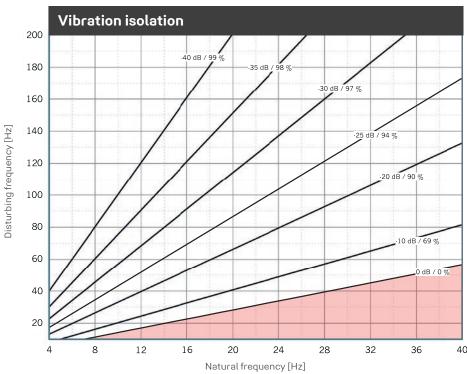
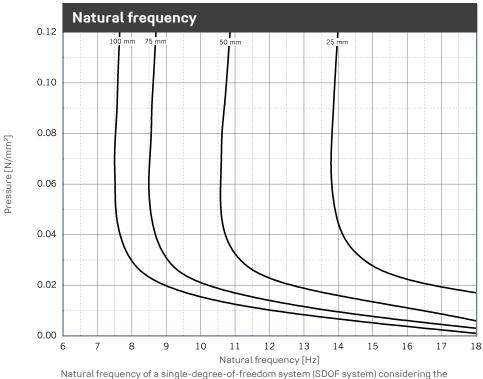
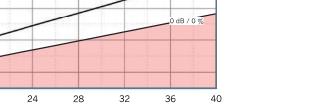


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUPOL vibration 450**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.



dynamic stiffness of **REGUPOL vibration 450** on a rigid base. Dimensions of test specimens , 300 x 300 mm.



0 N/mm²

1.50

0.80

0,30

0.15

0.12

0.10

0.05

0.02

1000

800

550

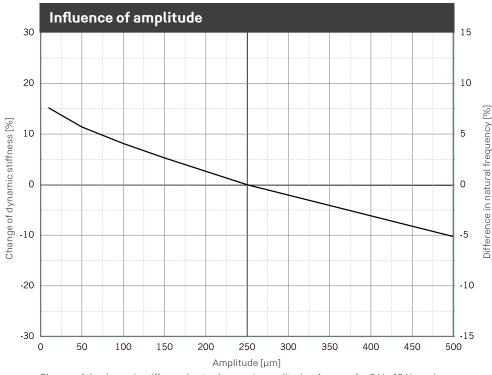
480

450

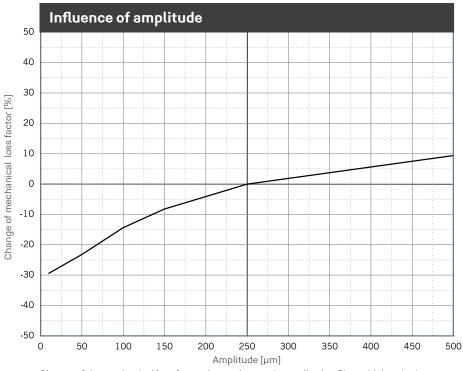
400

300

200



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 0.10 N/mm², dimensions of the specimens $300 \times 300 \times 50$ 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 0.10 N/mm^2 , dimensions of the specimens $300 \times 300 \times 50 \text{ mm}$.

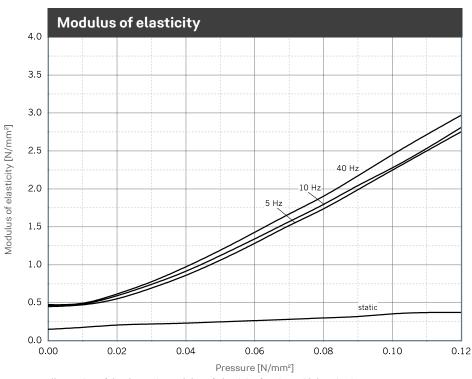


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of \pm 0.25 mm. Dimensions of specimens 300 x 300 x 50 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

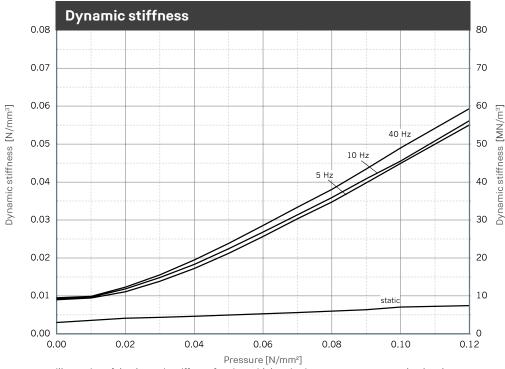
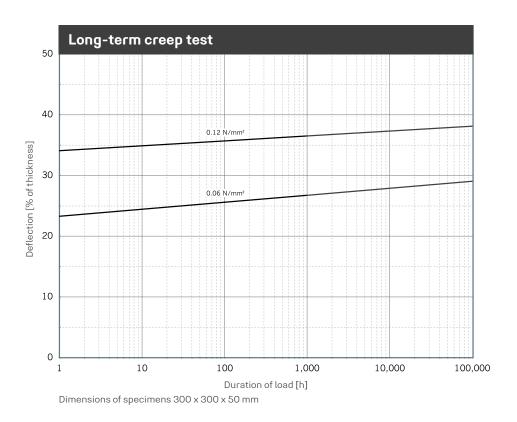


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of \pm 0.25 mm. Dimensions of specimens $300 \times 300 \times 50$ mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.





IMPORTANT:

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Comment on tolerances: All technical values correspond to our current state of knowledge and are to be understood as reference values only. These values can be subject to considerable variabilities due to production and/ or material reasons as well as due to outside influences (temperature, humidity etc.). Thus special agreements on material parameters might be necessary on a case-bycase basis.