

Forms of delivery, ex warehouse

Plates

Thickness: 25 and 50 mm, special thicknesses available

Length: 1,000 mm

Width: 500 mm

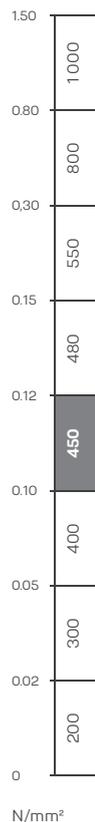
Technical Details

Maximum static load bearing capacity

0.120 N/mm²

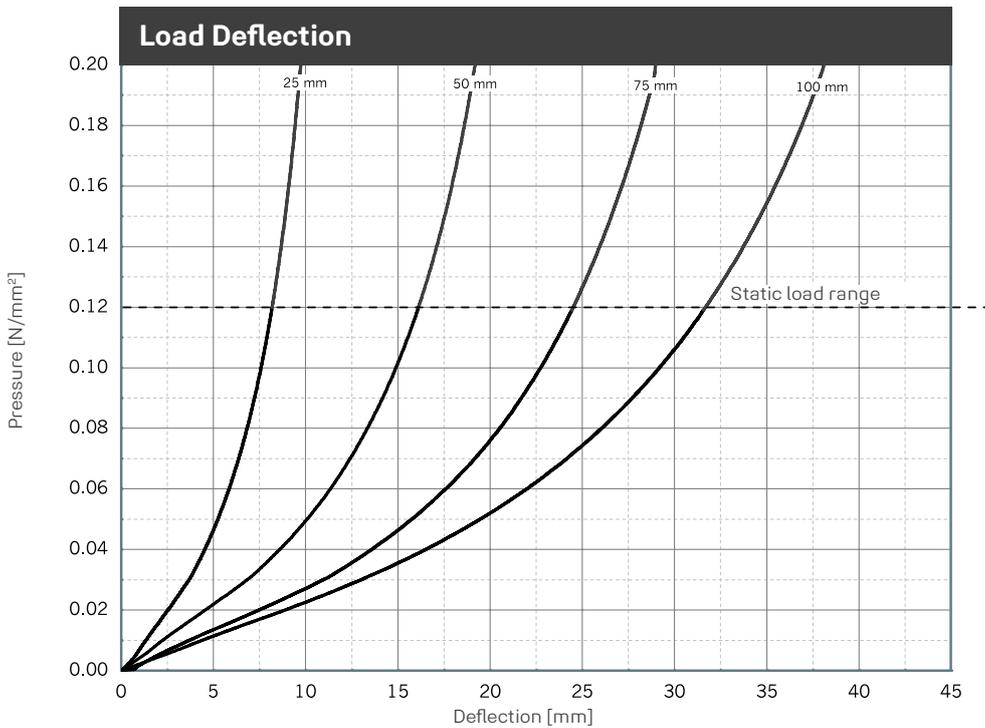
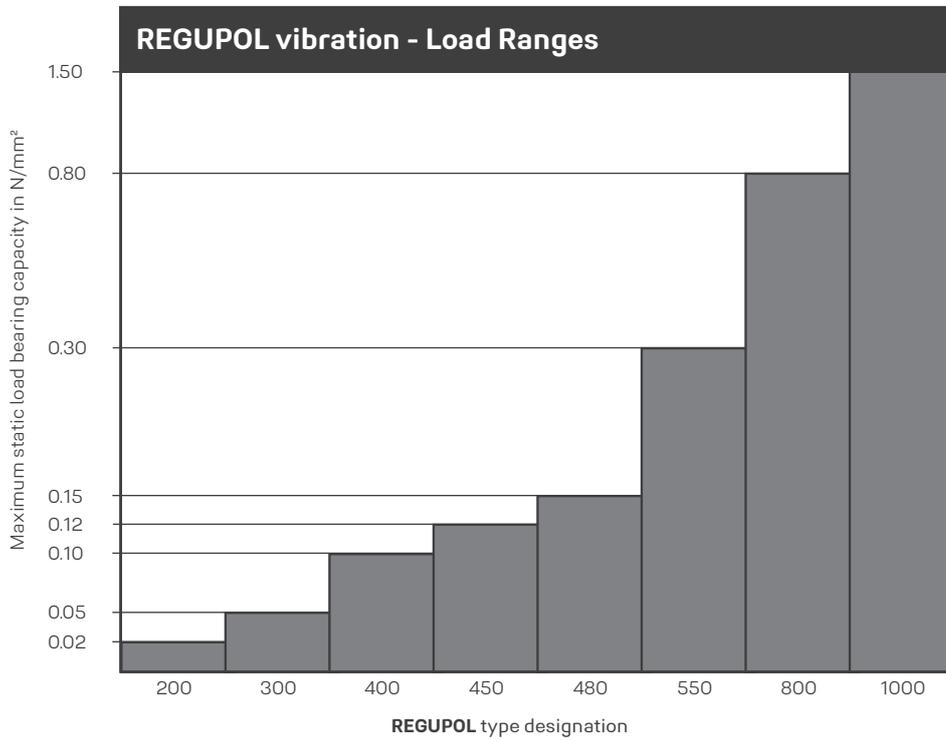
Rare, short term peak loads

up to 0.180 N/mm²



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

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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.

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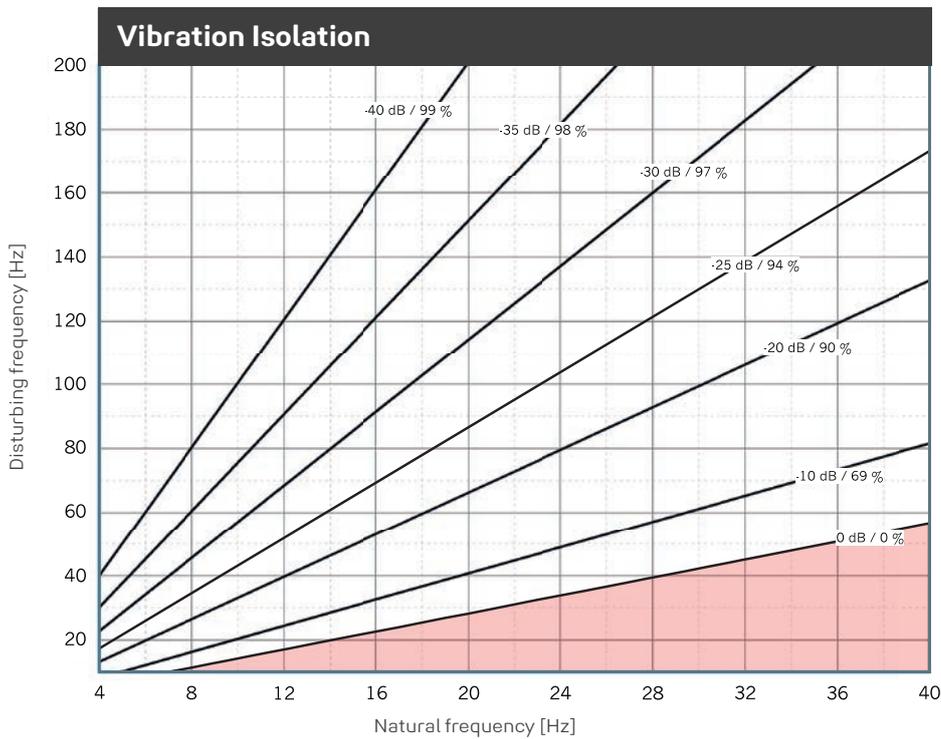
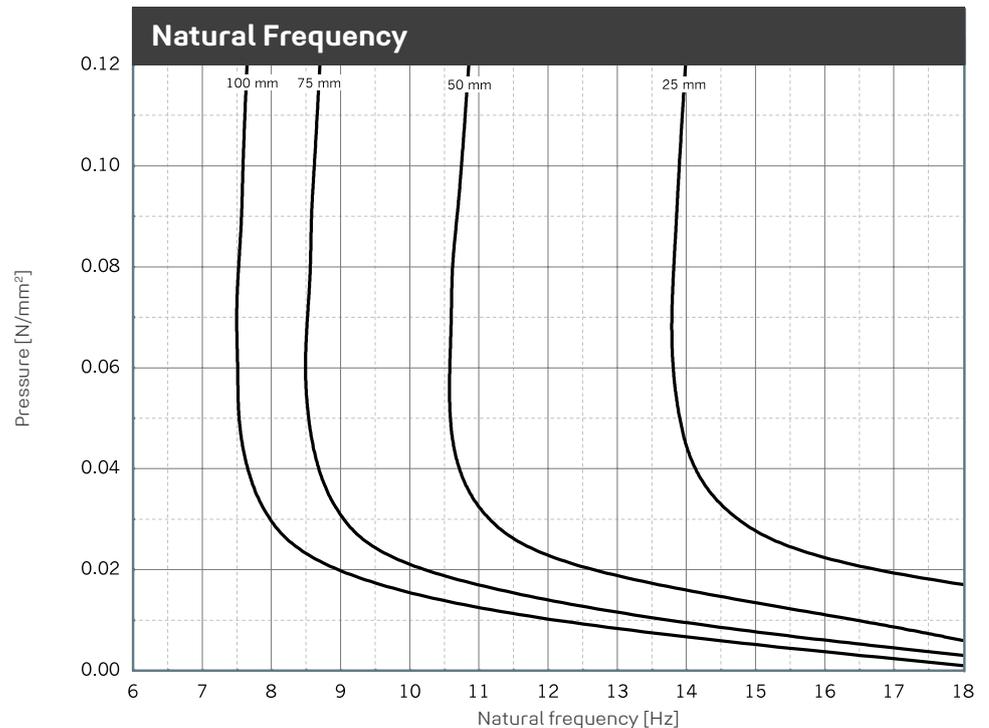
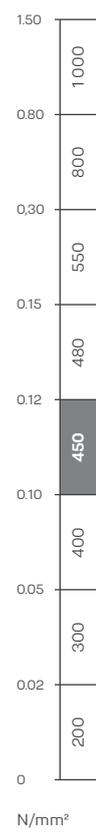
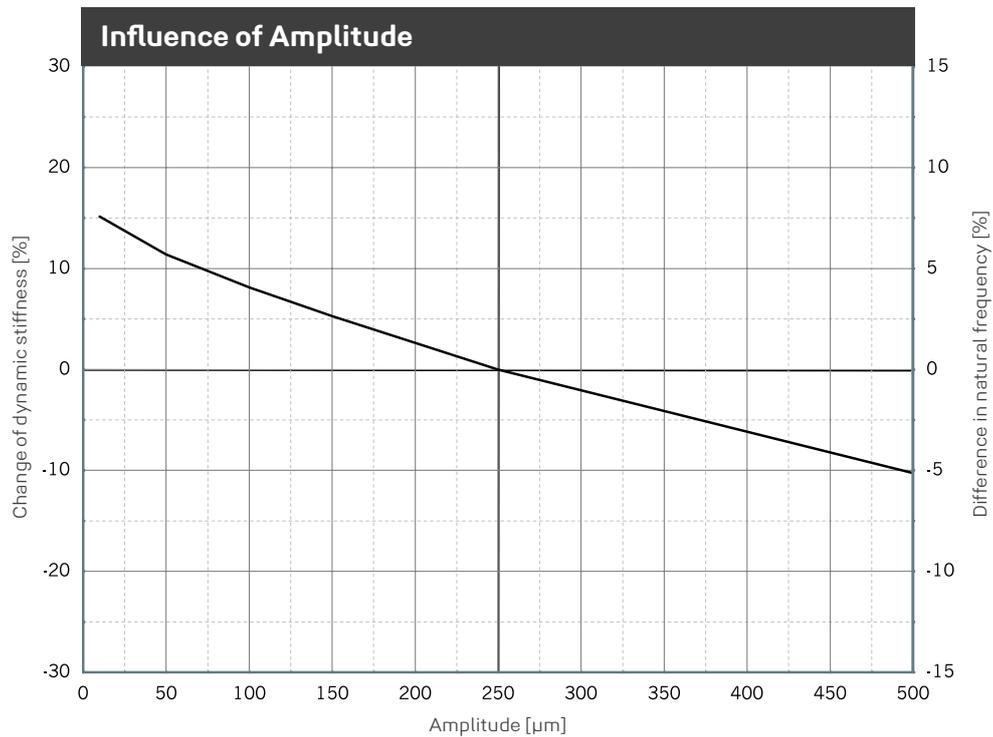


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **REGUPOL vibration 450**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

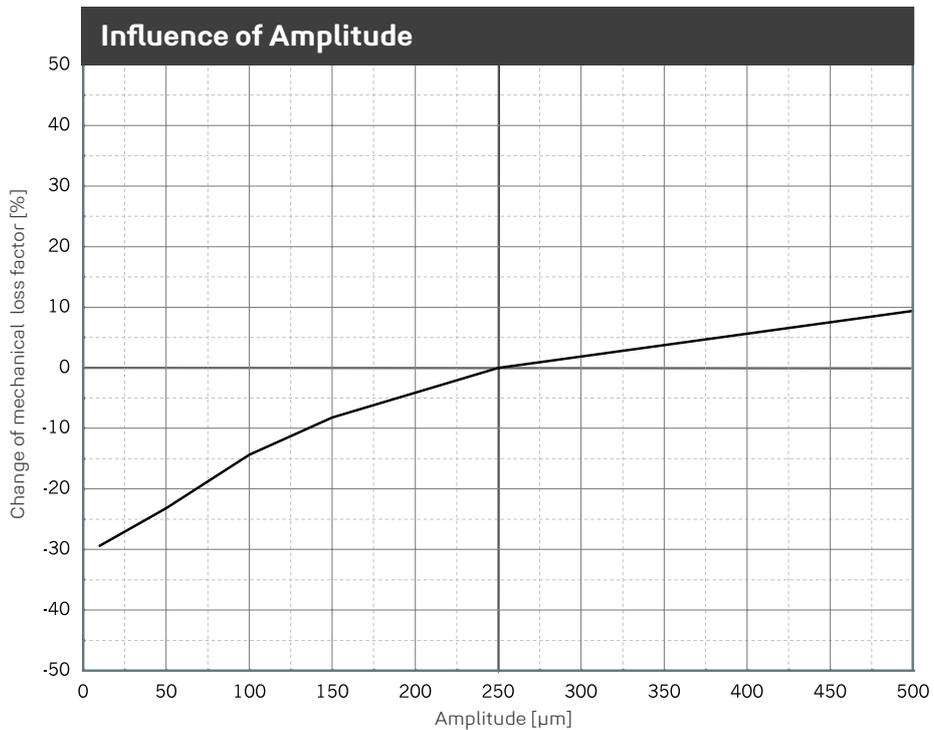


Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **REGUPOL vibration 450** on a rigid base. Dimensions of test specimens 300 x 300 mm.

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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 x 300 x 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/mm², dimensions of the specimens 300 x 300 x 50 mm.

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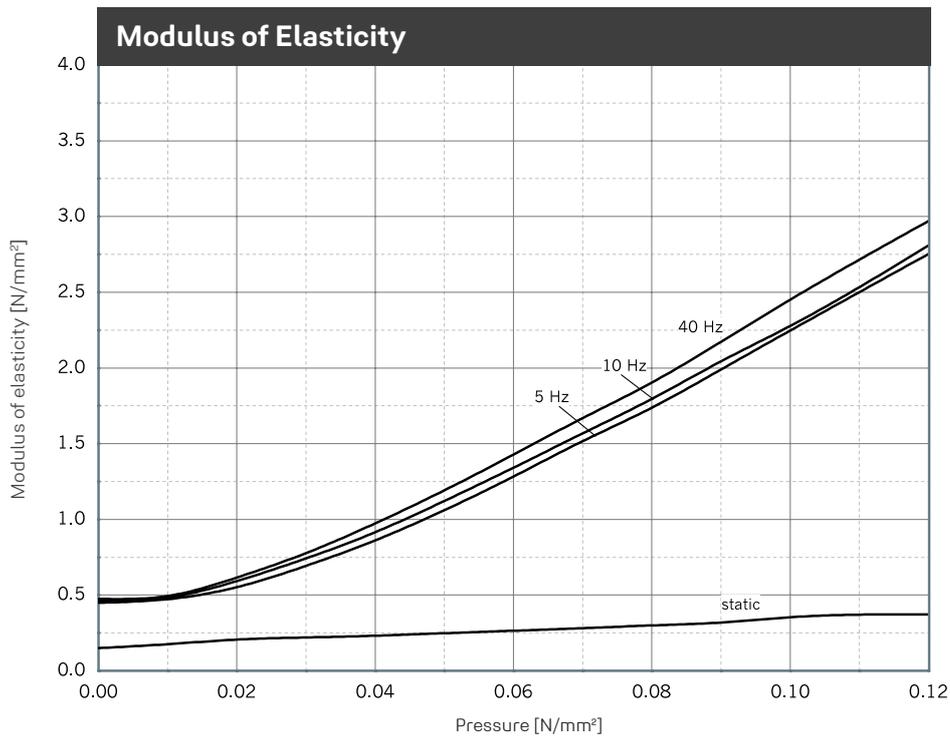


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 50 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

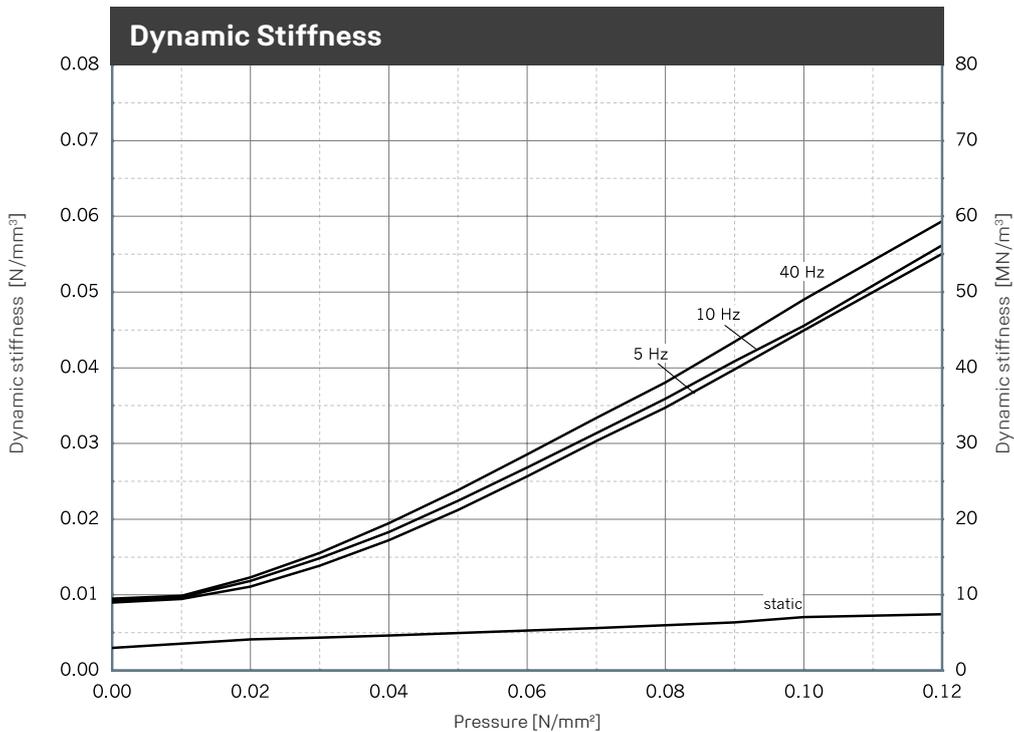
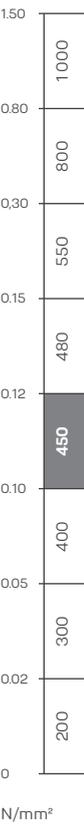
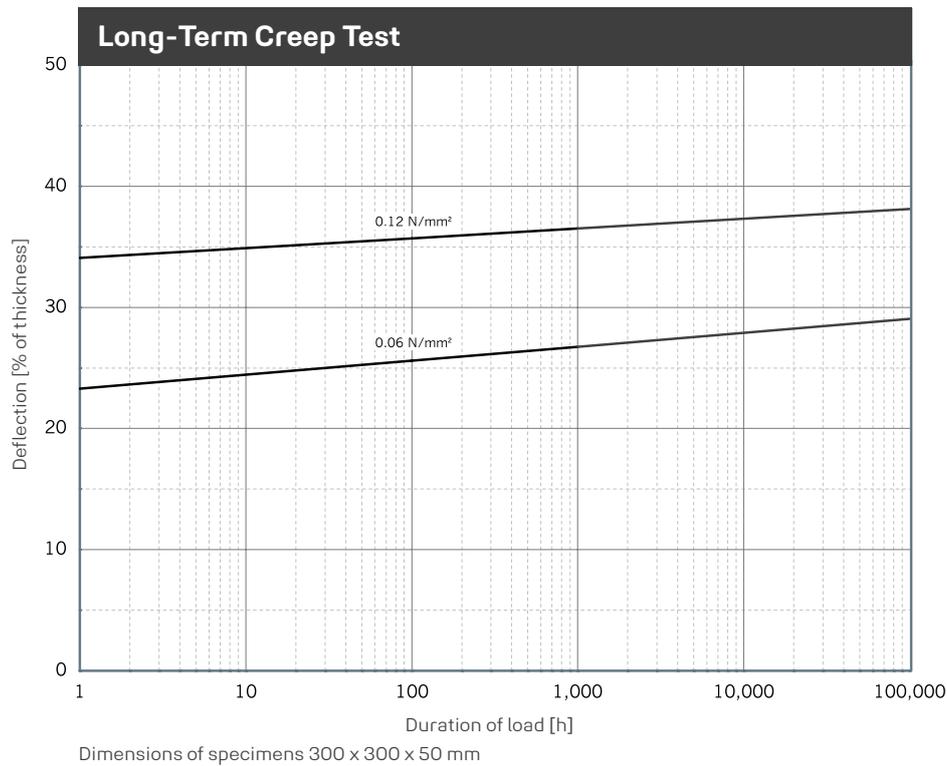


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of ± 0.25 mm. Dimensions of specimens 300 x 300 x 50 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.



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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-by-case basis.