Regufoam[®] Vibration 400^{plus}

Standard forms of delivery, ex Lebanon, PA

Sheets

| Thickness: | 25 mm and 12.5 mm | | |
|------------|------------------------------|--|--|
| | Custom thicknesses available | | |
| | on request | | |
| Length: | 59" (1,500 mm) | | |
| Width: | 3.3' (1,000 mm) | | |

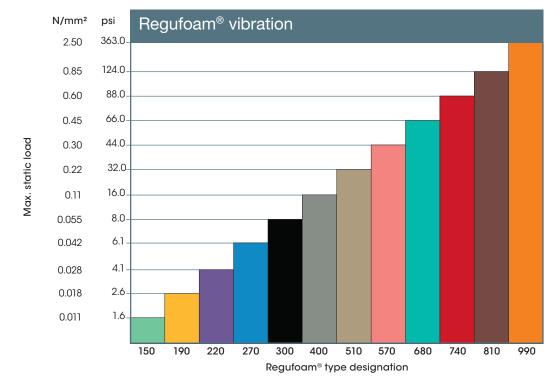
Max. static load 16.0 psi

Peak loads (rare, short-term loads) up to 435.1 psi



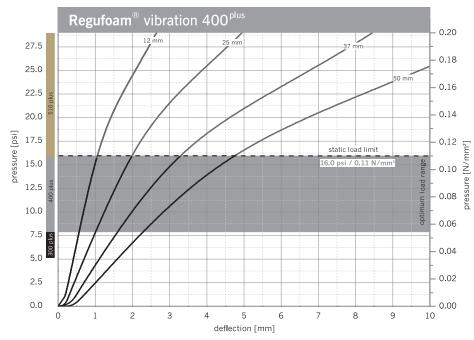
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| Static modulus of elasticity | Based on EN 826 | 87.0 - 145.0 0.6 - 1.0 | psi N/mm² | Tangential modulus, see figure "Modulus of elasticity" |
|-------------------------------|--|----------------------------|--------------|--|
| Dynamic modulus of elasticity | Based on DIN 53513 | 174.1 - 290.1 1.2 - 2.0 | psi N/mm² | 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 | 3.9 | % | Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs |
| Tensile strength | Based on DIN EN ISO 1798 | 217.6 1.5 | psi N/mm² | |
| Elongation at break | Based on DIN EN ISO 1798 | 220 | % | |
| Tear resistance | Based on DIN ISO 34-1 | 34.3 | lbs/in | |
| Sliding friction | In-house laboratory In-house laboratory | 0.7 0.8 | [-] [-] | Steel (dry) Concrete (dry) |
| Compression hardness | Based on DIN EN ISO 3386-2 | 170 | kPa | Compressive stress at 25 % deformation Test specimen h = 25 mm |
| Rebound elasticity | Based on DIN EN ISO 8307 | 57 | % | Depending on thickness, Test specimen h = 25 mm |
| Force reduction | DIN EN 14904 | 68 | % | Depending on thickness, Test specimen h = 25 mm |



Load Ranges

Load Deflection



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 mm x 300 mm.

Vibration Isolation

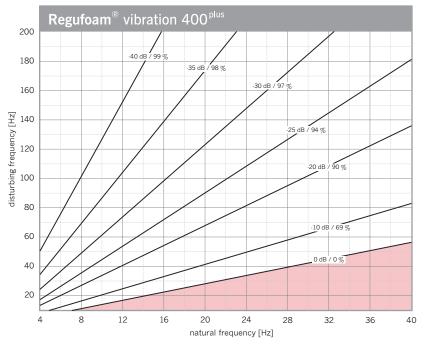
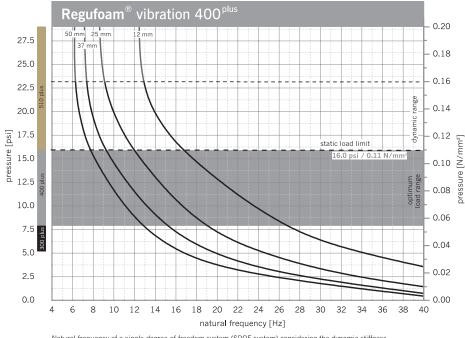


Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with **Regufoam® vibration 400 plus**. Parameter: power transmission (insertion loss) in dB, isolation factor in %.

Natural Frequency



Natural frequency of a single-degree-of-freedom system (SDOF system) considering the dynamic stiffness of **Regufoam® vibration 400** ^{plus} on a rigid base. Dimensions of test specimens 300 mm x 300 mm.

Modulus of Elasticity

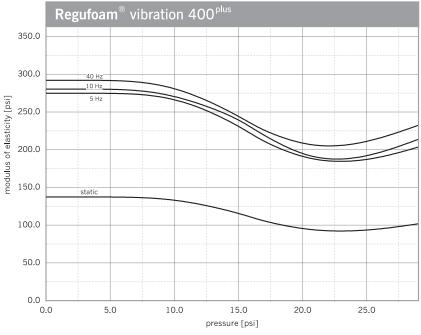


Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of +/- 0.25 mm. Dimensions of specimens 300 mm x 300 mm x 25 mm; static modulus of elasticity as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dynamic Stiffness

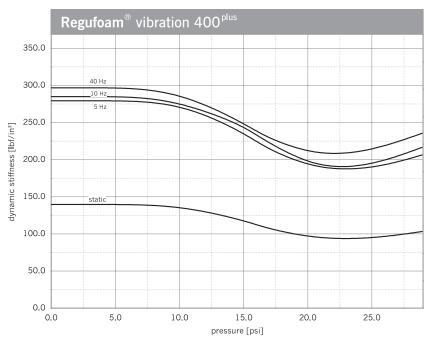
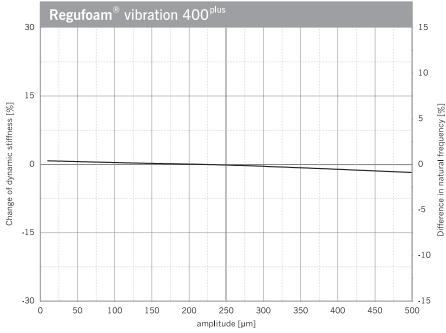
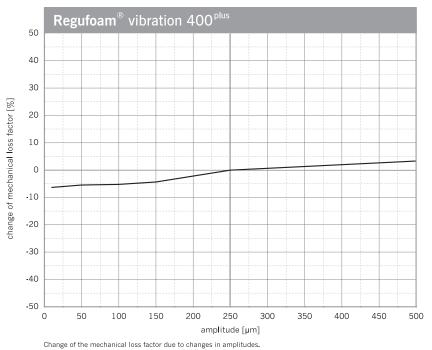


Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and an amplitude of +/· 0.25 mm. Dimension of specimens 300 x 300 x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.



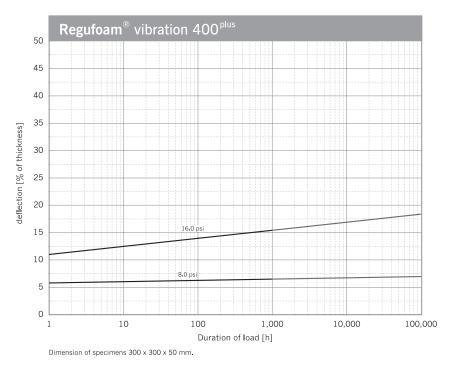
Influence of Amplitude

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 0.11 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.



Sinusoidal excitation at a constant mean load of 0.11 N/mm², dimensions of the specimens 300 x 300 x 25 mm.

Long-Term Creep Test









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