Regufoam®
Vibration 990 Plus
Standard forms of delivery, ex warehouse

**Plates**
- Thickness: 12.5 and 25 mm, special thicknesses on request
- Length: 1,500 mm, special lengths available
- Width: 1,000 mm

**Stripping/smaller sizes**
- On request
- Die-cutting, water-jet cutting, self-adhesive versions possible

**Continuous static load**
- 2.5 N/mm²

**Continuous and variable loads/operating load range**
- 0 to 3.5 N/mm²

**Peak loads (rare, short-term loads)**
- up to 8.0 N/mm²

<table>
<thead>
<tr>
<th>Property</th>
<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>Static modulus of elasticity</td>
<td>Based on EN 826, 20.0 - 78.0 N/mm²</td>
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<tr>
<td>Dynamic modulus of elasticity</td>
<td>Based on DIN 53513, 41.0 - 160.0 N/mm²</td>
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<tr>
<td>Mechanical loss factor</td>
<td>DIN 53513, 0.09 [-] Load- , amplitude- and frequency-dependent</td>
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<tr>
<td>Compression set</td>
<td>Based on DIN EN ISO 1856, 8.6 % Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs</td>
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<tr>
<td>Tensile strength</td>
<td>Based on DIN EN ISO 1798, 6.9 N/mm²</td>
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<td>Elongation at break</td>
<td>Based on DIN EN ISO 1798, 190 %</td>
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<tr>
<td>Tear resistance</td>
<td>Based on DIN ISO 34-1, 34.5 N/mm</td>
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<td>Fire behaviour</td>
<td>DIN 4102 EN 13501, B2 E DIN EN ISO 1856, [-] [-] Steel (dry) Concrete (dry)</td>
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<tr>
<td>Sliding friction</td>
<td>BSW-laboratory, 0.5 [-] BSW-laboratory, 0.6 [-]</td>
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<tr>
<td>Compression hardness</td>
<td>Based on DIN EN ISO 3386-2, 3640 kPa Compressive stress at 25 % deformation test specimen h = 25 mm</td>
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<tr>
<td>Rebound elasticity</td>
<td>Based on DIN EN ISO 8307, 55 % dependent on thickness, test specimen h = 25 mm</td>
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<tr>
<td>Force reduction</td>
<td>DIN EN 14904, 20 % dependent on thickness, test specimen h = 25 mm</td>
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</table>
Load Ranges

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 125 mm x 125 mm.

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 125 mm x 125 mm.
Vibration Isolation

Illustration of the isolation efficiency of a single-degree-of-freedom system (SDOF system) on a rigid base with Regufoam® vibration 990 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 990 plus on a rigid base. Dimensions of test specimens 125 mm x 125 mm.
Influence of Amplitude

In order to get information of changes in mechanical loss or dynamic stiffness due to changes in amplitudes please ask technical staff of Vibratec.
Modulus of Elasticity

Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 125 mm x 125 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 ± 0.10 mm. Dimensions of specimens 125 mm x 125 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.
Long-Term Creep Test

Dimensions of specimens 125 mm x 125 mm x 50 mm

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Exclusion of Liability

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We are continuously developing and improving our products and therefore design and specifications in our datasheets may be changed without prior notice

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Regufoam®
Regufoam® vibration 990 plus

Modulus of Elasticity
Dynamic Stiffness

Illustration of the dynamic modulus of elasticity for sinusoidal excitation at a constant mean load and an amplitude of ± 0.10 mm. Dimensions of specimens 125 mm x 125 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.

Illustration of the dynamic stiffness for sinusoidal excitation at a constant mean load and amplitude of ± 0.10 mm. Dimensions of specimens 125 mm x 125 mm x 25 mm; static stiffness as a result of the tangent modulus of the spring characteristic. Tested in accordance with DIN 53513.

Dimensions of specimens 125 mm x 125 mm x 50 mm