VIBRAX® – Elastomeric bearings
Recycled rubber vibration isolation mats

VIBRAX®DAMP
premium vibration isolation, wide load range

mageba
Overview VIBRAX®DAMP

Delivery form
- Material: Fine granules of recycled rubber foam with PU elastomer bonding agent
- Thickness: 5, 10, 12.5, 15, 20 mm and 17/8, 25/7 mm profiled mats for VIBRAX®DAMP 3D
- Roll width: 1,250 mm
- Other dimensions available on request (also stamping and moulded parts)

Working range

<table>
<thead>
<tr>
<th>Properties</th>
<th>3D</th>
<th>Soft</th>
<th>Medium</th>
<th>Hard</th>
<th>Ultra</th>
<th>Supreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>black</td>
<td>anthracite or anthracite/multicolour</td>
<td>anthracite or anthracite/multicolour</td>
<td>black/anthracite or black/anthracite/multicolour</td>
<td>anthracite or anthracite/multicolour</td>
<td>anthracite or anthracite/multicolour</td>
</tr>
<tr>
<td>Static range [N/mm²]</td>
<td>0.05</td>
<td>0.10</td>
<td>0.20</td>
<td>0.30</td>
<td>0.50</td>
<td>1.50</td>
</tr>
<tr>
<td>Load peak [N/mm²]</td>
<td>0.5</td>
<td>0.7</td>
<td>0.9</td>
<td>1.0</td>
<td>3.00</td>
<td>4.00</td>
</tr>
<tr>
<td>Tensile strength [N/mm²]</td>
<td>ca. 0.30</td>
<td>ca. 0.15</td>
<td>ca. 0.20</td>
<td>ca. 0.60</td>
<td>ca. 0.60</td>
<td>ca. 1.00</td>
</tr>
<tr>
<td>Elongation at break [%]</td>
<td>ca. 40</td>
<td>ca. 40</td>
<td>ca. 35</td>
<td>ca. 60</td>
<td>ca. 60</td>
<td>ca. 30</td>
</tr>
<tr>
<td>Maximum pressure [N/mm²]</td>
<td>0.05</td>
<td>0.10</td>
<td>0.20</td>
<td>0.30</td>
<td>0.50</td>
<td>2.00</td>
</tr>
<tr>
<td>Dynamic bedding modulus [N/mm³]</td>
<td>0.015 - 0.14</td>
<td>0.035 - 0.350</td>
<td>0.05 - 0.70</td>
<td>0.06 - 0.85</td>
<td>0.15 - 1.70</td>
<td>0.15 - 3.00</td>
</tr>
<tr>
<td>Natural frequency [Hz]</td>
<td>10 - 30</td>
<td>19 - 30</td>
<td>12 - 30</td>
<td>10 - 32</td>
<td>10 - 30</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Density [kg/m³]</td>
<td>500 - 600</td>
<td>400 - 500</td>
<td>400 - 500</td>
<td>600 - 700</td>
<td>800 - 900</td>
<td>1,000 - 1,100</td>
</tr>
<tr>
<td>Service temperature range [°C]</td>
<td>-30 to +80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>E1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The technical data mentioned in this product data sheet was derived from laboratory experiments. Circumstances beyond our control may lead to deviations from the effective values.
Overview VIBRAX®DAMP 3D

**Working range**

![Graph showing specific load vs type]

**Recommendations for elastic bearing:**

- **Static range:** up to [N/mm²]
  - **0.05**
- **Load peak:** up to [N/mm²]
  - **0.5**

**Material:** Fine granules of recycled rubber foam with PU elastomer bonding agent

**Colour:** black

**Surface:** Granulate structure, profiled on one side

**Delivery specifications**

- **Thickness s1/s2:** 6/3* | 10/5* | 17/8* | 25/7** mm  *(±1.0 m) ** (±1.5 m)
- **Roll width:** 1,250 mm (±1.5 %)
- **Roll length:** 8,000 mm (±1.5 %) | 25/7: 4,000 mm (±1.5 %)

*Other dimensions on request (also stamping and moulded parts).

**Properties**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test method</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ca. 0.30 N/mm²</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ca. 40 %</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>0.05 N/mm²</td>
<td>EN 826</td>
<td></td>
</tr>
<tr>
<td>Bedding modulus</td>
<td>0.015 - 0.14 N/mm³</td>
<td>DIN 53513</td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Natural frequency</td>
<td>10 - 30 Hz</td>
<td></td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-30 to +80 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>Efl</td>
<td>EN 13501-1</td>
<td>normal flammable</td>
</tr>
<tr>
<td>Density</td>
<td>500 - 600 kg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Product data sheet VIBRAX®DAMP 3D

Load deflection curve

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed $v = 10$ mm/min
- Sample dimensions 300 x 300 mm

Dynamic bedding modulus

- Dynamic test: sinusoidal excitation with an oscillating range of $\pm 0.25$ mm at 10 Hz
- Testing in accordance with DIN 53513
- Sample dimensions 300 x 300 mm
Product data sheet VIBRAX®DAMP 3D

Natural frequency

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX®DAMP 3D on a stiff subgrade
- Sample dimensions 300 x 300 m

Vibration isolation

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX®DAMP 3D
- Parameters:
  - Insertion loss in dB,
  - Isolation factor in %

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Overview VIBRAX®DAMP Soft

Vibration damping

Recommendations for elastic bearing:
Static range: up to [N/mm²]
0.10
Load peak: up to [N/mm²]
0.7

Material: Fine granules of recycled rubber foam with PU elastomer bonding agent
Colour: anthracite or anthracite/multicolour
Surface: closed, smooth

Delivery specifications
Thickness: 5 | 10 | 12.5 | 15 | 20 mm (±1.0 mm)
Roll width: 1,250 mm (±1.5 %)
Roll length: 5/8 | 10/16 | 12.5/1 | 15/1 | 20/1 mm/m (±1.5 %)
Other dimensions on request (also stamping and moulded parts).

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test method</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ca. 0.15 N/mm²</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ca. 40 %</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>0.10 N/mm²</td>
<td>EN 826</td>
<td></td>
</tr>
<tr>
<td>Bedding modulus</td>
<td>0.035 - 0.350 N/mm²</td>
<td>DIN 53513</td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Natural frequency</td>
<td>19 - 30 Hz</td>
<td></td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-30 to +80 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>Efl</td>
<td>EN 13501-1</td>
<td>normal flammable</td>
</tr>
<tr>
<td>Density</td>
<td>400 - 500 kg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Product data sheet VIBRAX®DAMP Soft

Load deflection curve

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed $v = 10 \text{ mm/min}$
- Sample dimensions $300 \times 300 \text{ mm}$

Dynamic bedding modulus

- Dynamic test: sinusoidal excitation with an oscillating range of $\pm 0.25 \text{ mm at } 10 \text{ Hz}$
- Testing in accordance with DIN 53513
- Sample dimensions $300 \times 300 \text{ mm}$
Vibration damping

Product data sheet VIBRAX®DAMP Soft

Natural frequency

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX®DAMP Soft on a stiff subgrade
- Sample dimensions 300 x 300 m

Vibration isolation

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX®DAMP Soft
- Parameters:
  Insertion loss in dB, Isolation factor in %

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Overview VIBRAX®DAMP Medium

Recommendations for elastic bearing:

Static range: up to [N/mm²]

0.20

Load peak: up to [N/mm²]

0.9

Material: Fine granules of recycled rubber foam with PU elastomer bonding agent

Colour: anthracite or anthracite/multicolour

Surface: closed, smooth

Delivery specifications

Thickness: 5 | 10 | 12.5 | 15 | 20 mm (±1.0 mm)

Roll width: 1,250 mm (±1.5 %)

Roll length: 5/8 | 10/6 | 12.5/1 | 15/1 | 20/1 mm/m (±1.5 %)

Other dimensions on request (also stamping and moulded parts).

Properties | Value | Test method | Comment
--- | --- | --- | ---
Tensile strength | ca. 0.20 N/mm² | ISO 1798 | 
Elongation at break | ca. 35 % | ISO 1798 | 
Maximum pressure | 0.20 N/mm² | EN 826 | 
Bedding modulus | 0.05 - 0.70 N/mm³ | DIN 53513 | depending on configuration, load and frequency
Natural frequency | 12 - 30 Hz | | depending on configuration, load and frequency
Service temperature range | -30 to +80 °C | | 
Flammability rating | Efl | EN 13501-1 | normal flammable
Density | 400 - 500 kg/m³ | | 

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Product data sheet VIBRAX®DAMP Medium

Load deflection curve

[Graph showing load deflection curve]

Dynamic bedding modulus

[Graph showing dynamic bedding modulus]

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed $v = 10$ mm/min
- Sample dimensions $300 \times 300$ mm

- Dynamic test: sinusoidal excitation with an oscillating range of $\pm 0.25$ mm at 10 Hz
- Testing in accordance with DIN 53513
- Sample dimensions $300 \times 300$ mm
Product data sheet VIBRAX® DAMP Medium

Natural frequency

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX® DAMP Medium on a stiff subgrade
- Sample dimensions 300 x 300 m

Vibration isolation

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX® DAMP Medium
- Parameters: Insertion loss in dB, Isolation factor in %

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Overview VIBRAX®DAMP Hard

**Working range**

<table>
<thead>
<tr>
<th>Type</th>
<th>Specific load [N/mm²]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft</td>
<td>0.01</td>
</tr>
<tr>
<td>Medium</td>
<td>0.1</td>
</tr>
<tr>
<td>Hard</td>
<td>1.0</td>
</tr>
<tr>
<td>Ultra</td>
<td>3.0</td>
</tr>
<tr>
<td>Supreme</td>
<td>10.0</td>
</tr>
</tbody>
</table>

**Recommendations for elastic bearing:**

- Static range: up to [N/mm²] 0.30
- Load peak: up to [N/mm²] 1.00

**Material:** Fine granules of recycled rubber foam with PU elastomer bonding agent

**Colour:** black/anthracite or black/anthracite/multicolour

**Surface:** closed, smooth

**Delivery specifications**

- Thickness: 5 | 10 | 12.5 | 15 | 20 mm (±1.0 %)
- Roll width: 1,250 mm (±1.5 %)
- Roll length: 5/8 | 10/6 | 12.5/1 | 15/1 | 20/1 mm/m (±1.5 %)

Other dimensions on request (also stamping and moulded parts).

**Properties**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test method</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ca. 0.60 N/mm²</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ca. 60 %</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>0.30 N/mm²</td>
<td>EN 826</td>
<td></td>
</tr>
<tr>
<td>Bedding modulus</td>
<td>0.06 - 0.85 N/mm³</td>
<td>DIN 53513</td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Natural frequency</td>
<td>10 - 32 Hz</td>
<td></td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-30 to +80 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>Efl</td>
<td>EN 13501-1</td>
<td>normal flammable</td>
</tr>
<tr>
<td>Density</td>
<td>600 - 700 kg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Product data sheet VIBRAX®DAMP Hard

Load deflection curve

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed \( v = 10 \text{ mm/min} \)
- Sample dimensions 300 x 300 mm

Dynamic bedding modulus

- Dynamic test: sinusoidal excitation with an oscillating range of \( \pm 0.25 \text{ mm} \) at 10 Hz
- Testing in accordance with DIN 53513
- Sample dimensions 300 x 300 mm
Product data sheet VIBRAX®DAMP Hard

Natural frequency

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX®DAMP Hard on a stiff subgrade
- Sample dimensions 300 x 300 mm

Vibration isolation

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX®DAMP Hard
- Parameters:
  - Insertion loss in dB,
  - Isolation factor in %

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Overview VIBRAX® DAMP Ultra

Recommendations for elastic bearing:

Static range: up to [N/mm²]

**0.50**

Load peak: up to [N/mm²]

**3.00**

**Material:** Fine granules of recycled rubber foam with PU elastomer bonding agent

**Colour:** anthracite or anthracite/multicolour

**Surface:** closed, smooth

**Delivery specifications**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>5</th>
<th>10</th>
<th>12.5</th>
<th>15</th>
<th>20 mm (±1.0 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll width</td>
<td>1,250 mm (±1.5 %)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roll length</td>
<td>5/8</td>
<td>10/6</td>
<td>12.5/1</td>
<td>15/1</td>
<td>20/1 mm/m (±1.5 %)</td>
</tr>
</tbody>
</table>

Other dimensions on request (also stamping and moulded parts).

**Properties**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test method</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ca. 0.60 N/mm²</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ca. 60 %</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>0.50 N/mm²</td>
<td>EN 826</td>
<td></td>
</tr>
<tr>
<td>Bedding modulus</td>
<td>0.15 - 1.70 N/mm³</td>
<td>DIN 53513</td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Natural frequency</td>
<td>10 - 30 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-30 to +80 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>Efl</td>
<td>EN 13501-1</td>
<td>normal flammable</td>
</tr>
<tr>
<td>Density</td>
<td>800 - 900 kg/m³</td>
<td></td>
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</tr>
</tbody>
</table>

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Product data sheet VIBRAX®DAMP Ultra

Load deflection curve

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed $v = 10 \text{ mm/min}$
- Sample dimensions $300 \times 300 \text{ mm}$

Dynamic bedding modulus

- Dynamic test: sinusoidal excitation with an oscillating range of ±0.25 mm at 10 Hz
- Testing in accordance with DIN 53513
- Sample dimensions $300 \times 300 \text{ mm}$
Product data sheet VIBRAX®DAMP Ultra

Natural frequency

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX®DAMP Ultra on a stiff subgrade
- Sample dimensions 300 x 300 mm

Vibration isolation

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX®DAMP Ultra
- Parameters:
  Insertion loss in dB,
  Isolation factor in %

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# Overview VIBRAX®DAMP Supreme

**Working range**

![Graph showing specific load vs. type]

**Recommendations for elastic bearing:**
- Static range: up to [N/mm²] 1.50
- Load peak: up to [N/mm²] 4.00

**Material:** Fine granules of recycled rubber foam with PU elastomer bonding agent
**Colour:** anthracite or anthracite/multicolour
**Surface:** closed, smooth

**Delivery specifications**
- Thickness: 5 | 10 mm (±1.0 mm)
- Roll width: 1,250 mm (±1.5 %)
- Roll length: 5/8 | 10/6 | mm/m (±1.5 %)

Other dimensions on request (also stamping and moulded parts).

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test method</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>ca. 1.00 N/mm²</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ca. 30 %</td>
<td>ISO 1798</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>2.00 N/mm²</td>
<td>EN 826</td>
<td></td>
</tr>
<tr>
<td>Bedding modulus</td>
<td>0.15 - 3.00 N/mm³</td>
<td>DIN 53513</td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Natural frequency</td>
<td>10 - 30 Hz</td>
<td></td>
<td>depending on configuration, load and frequency</td>
</tr>
<tr>
<td>Service temperature range</td>
<td>-30 to +80 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability rating</td>
<td>Efl</td>
<td>EN 13501-1</td>
<td>normal flammable</td>
</tr>
<tr>
<td>Density</td>
<td>1,000 - 1,100 kg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Product data sheet VIBRAX®DAMP Supreme

Load deflection curve

- Recording of the 3rd loading; testing between steel plates at room temperature
- Testing in accordance with DIN EN 826
- Test speed \( v = 10 \, \text{mm/min} \)
- Sample dimensions 150 x 150 mm

Dynamic bedding modulus

- Dynamic test: sinusoidal excitation with an oscillating range of ±0.25 mm at 10 Hz
- Testing in accordance with DIN 53513
- Sample dimensions 150 x 150 mm
**Vibration damping**

**Product data sheet VIBRAX®DAMP Supreme**

**Natural frequency**

- Natural frequency of the system consisting of a fixed mass and an elastic bearing consisting of VIBRAX®DAMP Supreme on a stiff subgrade
- Sample dimensions 300 x 300 mm

**Vibration isolation**

- The isolation effect for a single mass oscillator system on a rigid surface with VIBRAX®DAMP Supreme
- Parameters:
  - Insertion loss in dB
  - Isolation factor in %

**DISCLAIMER:**
The information provided is intended only as a summary and general overview on matters of interest. The information is not intended to be comprehensive nor does it constitute expert advice. mageba shall not be liable for incidental and/or consequential damages directly or indirectly sustained, nor any loss caused by not complying with relevant industry/product standards and improper use of any VIBRAX®DAMP Supreme products. Due to varying construction methods, any other circumstances not stated above should be brought to the attention of mageba for review. For suitability to the prevailing site conditions, it is advised that certified testing should be conducted. It is recommended to seek further advice on your application with our technical staff prior to use.
Vibration damping

Project References

Residenz Seesicht Vitznau, Switzerland
mageba products:
Product: VIBRAX®BLOCK B
Vibration isolation
Installed: 2014

Multiplex Cinemas GAUMONT, France
mageba products:
Product: VIBRAX®BLOCK B
Vibration isolation
Installed: 2005

Escher-Terrassen Zürich, Switzerland
mageba products:
Product: VIBRAX®BLOCK B
Vibration isolation
Installed: 2014

Quartier Mailänder Platz Stuttgart, Germany
mageba products:
Product: VIBRAX®BLOCK B
Vibration isolation
Installed: 2014

Carpark Railway station, Winterthur, Switzerland
mageba products:
Product: TENSAGRIP RB
Steel joint, watertight with max. 50 mm movement
Installed: 2015

Main Station Zurich, Switzerland
mageba products:
Product: POLYFLEX®ADVANCED
PU FSJ type PA40 for buildings
Installed: 2015

Airside Center Kloten, Switzerland
mageba products:
Product: LASTO®FLONPAD
High-grade Point-sliding-bearing
Installed: 2010

Nestlé Headquarters Vevey, Switzerland
mageba products:
Product: TENSABASE
Noise-reducing steel joint
Installed: 2009

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