

vibration and structural isolation

construction / industrial products

Technical data for Regupol®

- RAV100
- RAV200
- RAV300
- RAV400
- RAV500
- RAV600

CMS VIBRATION
SOLUTIONS

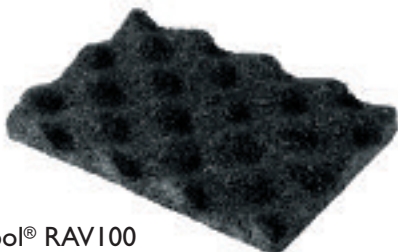


Regupol®



Regupol®

Product range



Regupol® RAV100



Regupol® RAV200



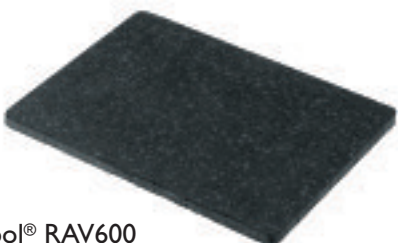
Regupol® RAV300



Regupol® RAV400



Regupol® RAV500



Regupol® RAV600

Applications

Construction

- Building isolation
- Foundation isolation
- Structural isolation
- Resilient seatings
- Floating floors
- Stairs and landings

Industrial

- Inertia plinths
- Machinery mounting pads/strips
- Machine foundations
- Mass spring systems
- Plant rooms
- General workshop machinery

General M&E plant

- ACU's
- Refrigeration equipment
- Pumps
- Lift motors
- Generators
- Boilers
- Presses
- Guillotines
- Milling machines

Infrastructure

- Rail and tunnel construction
- Road and bridge construction

construction / industrial

Isolation of structure borne noise and vibration

The Regupol® portfolio provides access to a range of high performing and cost effective anti-vibration solutions, designed to overcome all types of vibration challenges in any industry sector.

Manufactured from polyurethane-bound rubber granulate, Regupol® products are fully recyclable. A wide choice of material grades are available, including products with a load bearing range up to and including 1.5N/mm².

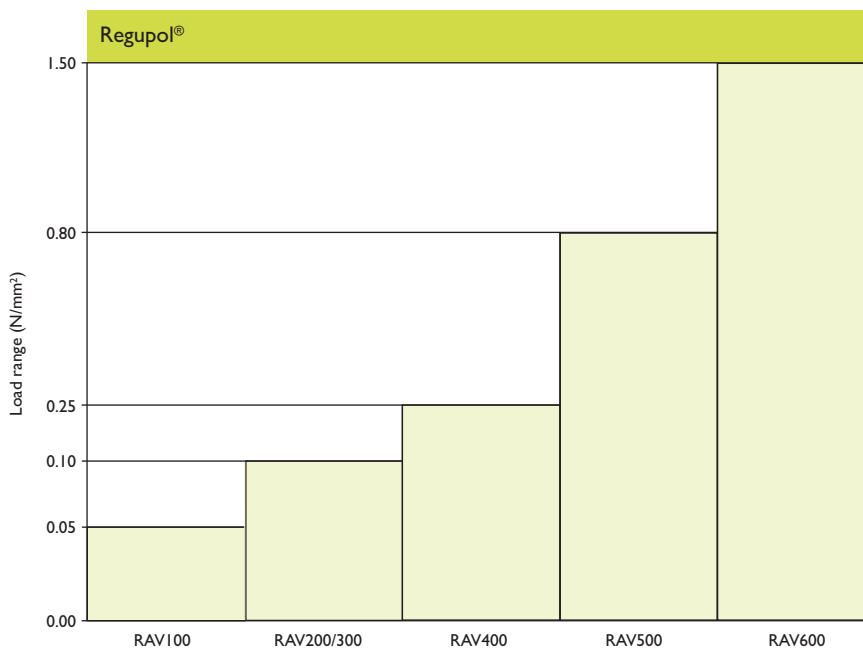
The selection of a Regupol® system will depend on a number of factors, including load, area and natural frequency required of the isolation material.

With a high load bearing capacity and excellent damping properties, Regupol® maintains its performance over a long lifespan. It has also been independently tested by the Institute of Structural Dynamics at Dresden Technical University for static and dynamic behaviour.

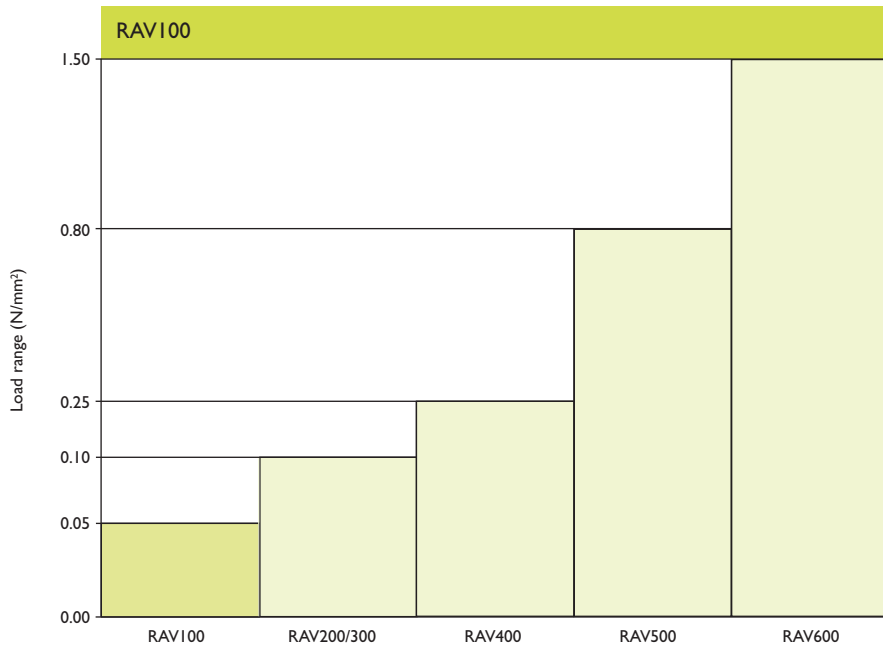
Supplied in easy to lay rolls or individually cut pads/strips, Regupol® is quick and easy to install.

Regupol® is one of the leading brands for the isolation of vibration. Standard and bespoke solutions can be offered, for the most simple and complex applications.

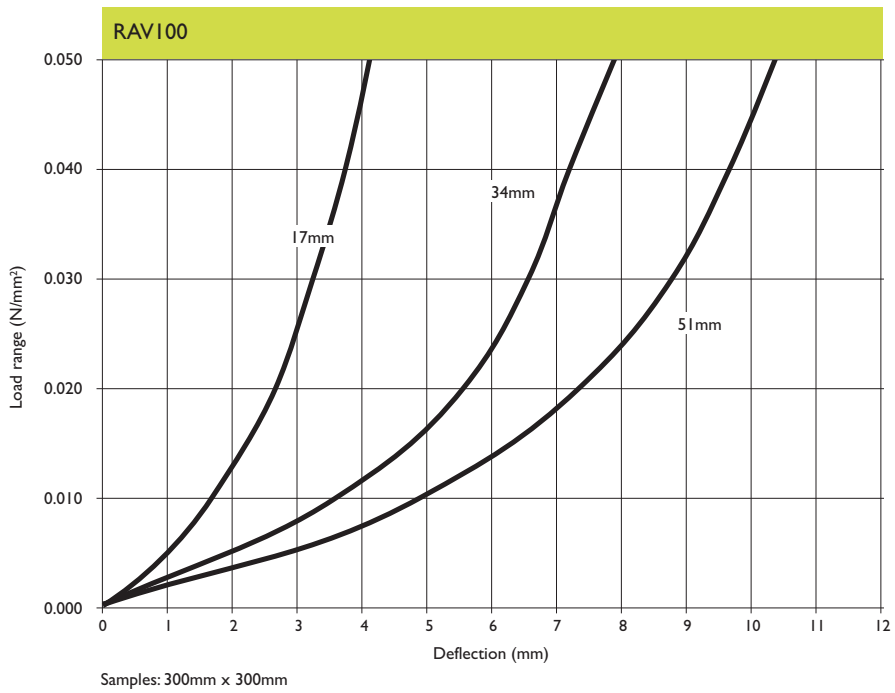
Load Ranges



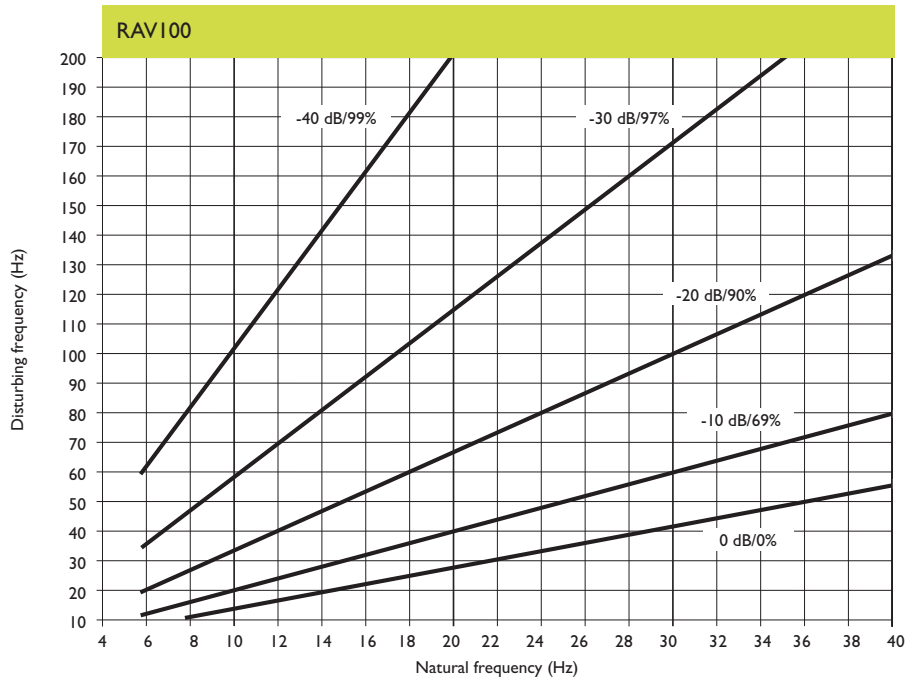
Load Ranges



I Load Deflection

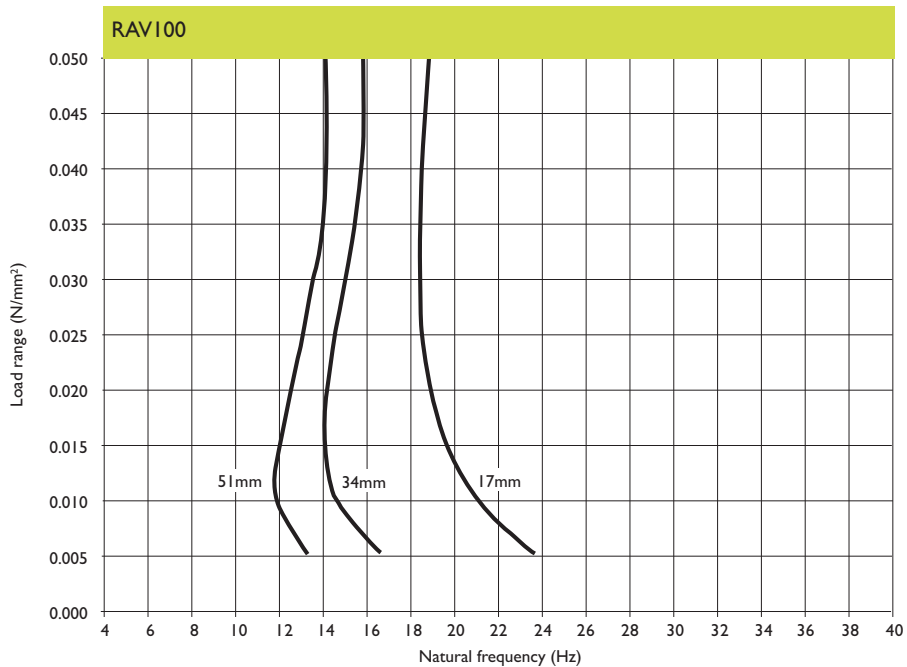


2 Vibration Isolation



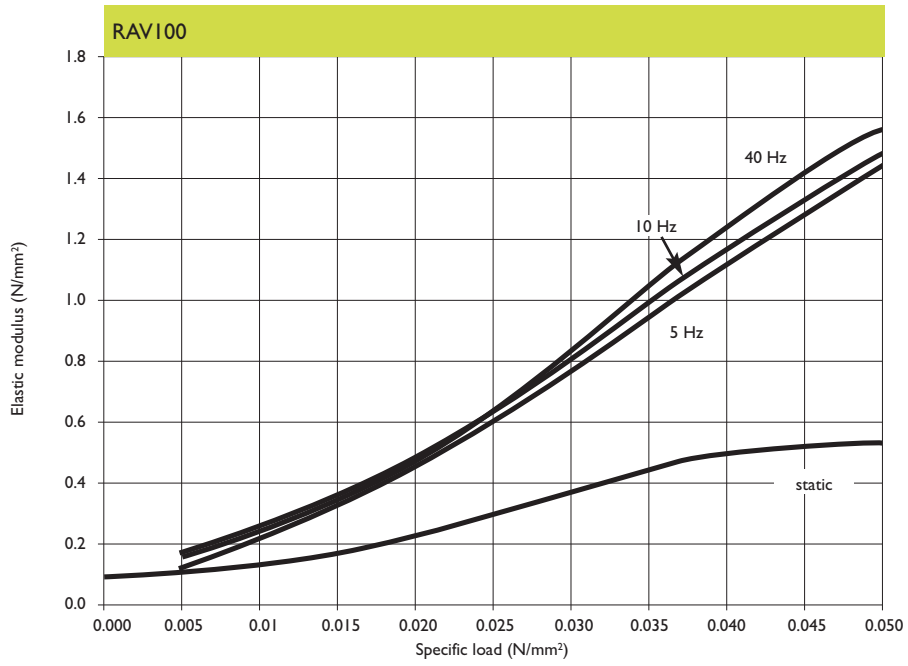
Parameter: Power transmission loss (dB), isolation factor in %

3 Natural Frequency

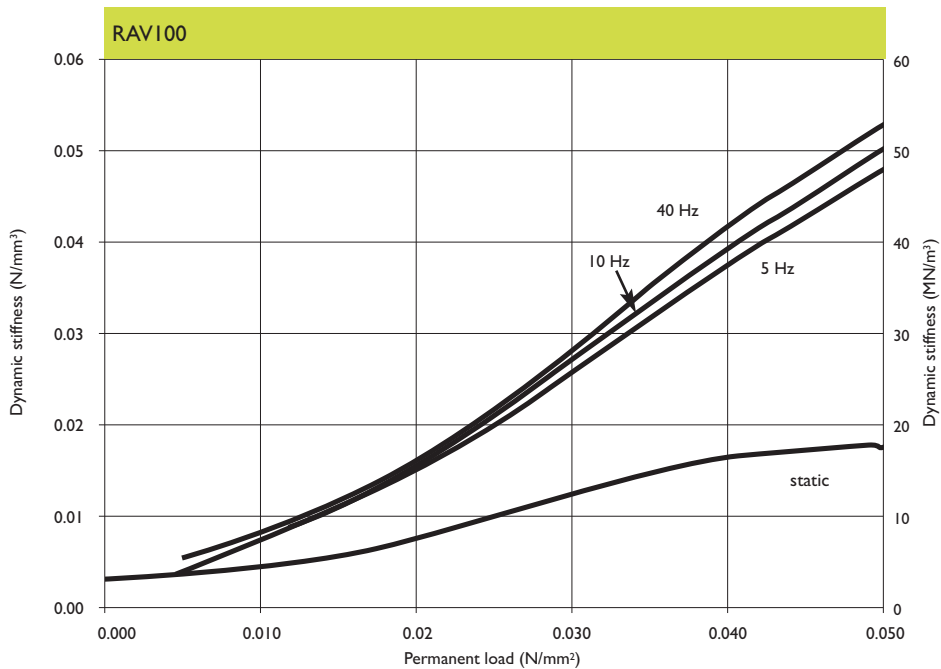


Samples: 300mm x 300mm

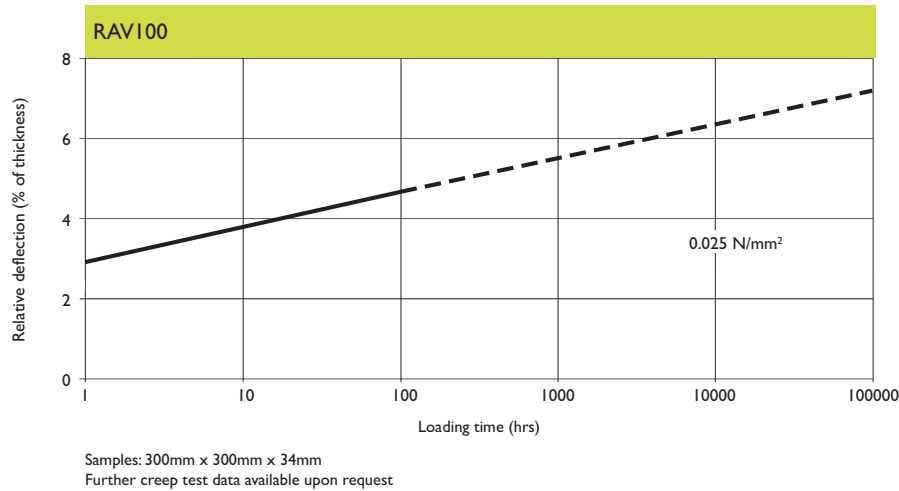
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Physical Properties

Regupo® is made of polyurethane-bound rubber granulate.

Thickness: 17mm*

Roll dimensions: 10m x 1.25m (strips and/or pads are available upon request)

Permanent static load range: 0.05 N/mm²

* Dimpled on one side

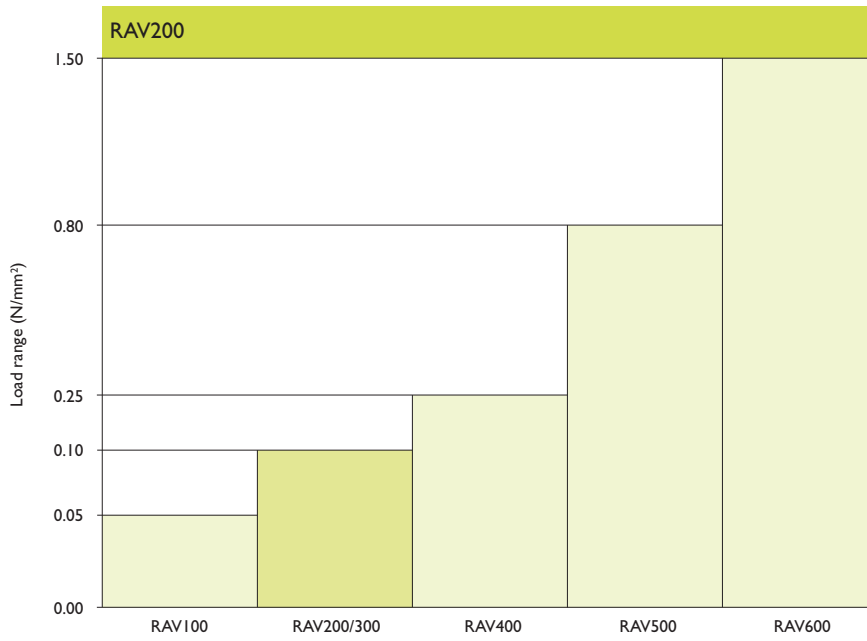


Technical Information

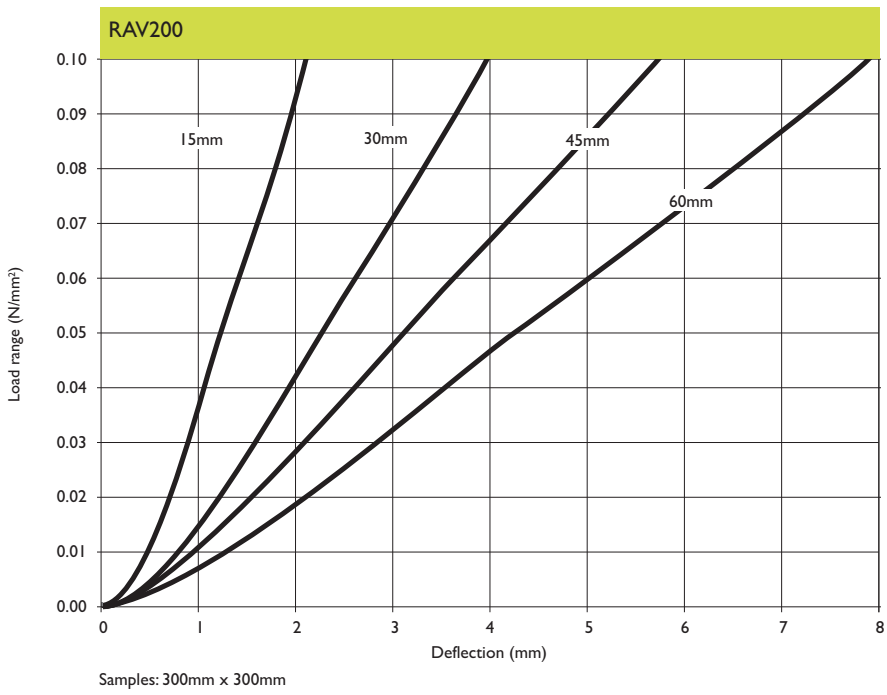
Compression Set	DIN 53572	approx. 4.10	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	0.30	N/mm ²	Minimum
Elongation at Break	DIN 53571	60	%	Minimum
Tear-Resistance	DIN 53515	3.0	N/mm	Minimum
Static Modulus of Elasticity	Similar to EN 826	0.10-0.44	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	0.15-1.10	N/mm ²	Depending on load and frequency, see fig. 5

The information on this data sheet is based on the current state of our knowledge and experience and is subject to changes and production-related variations without notice.

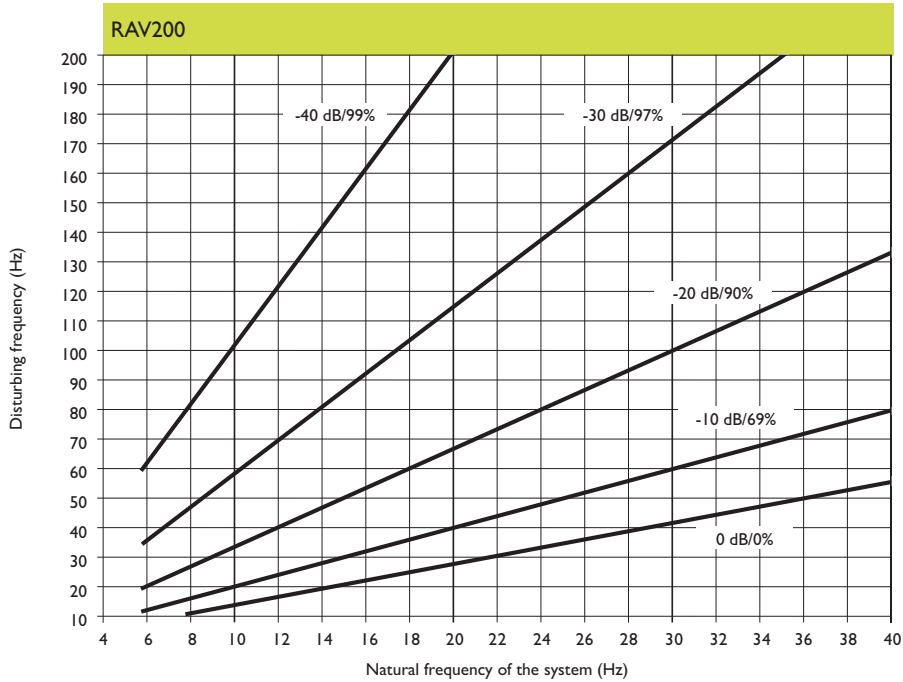
Load Ranges



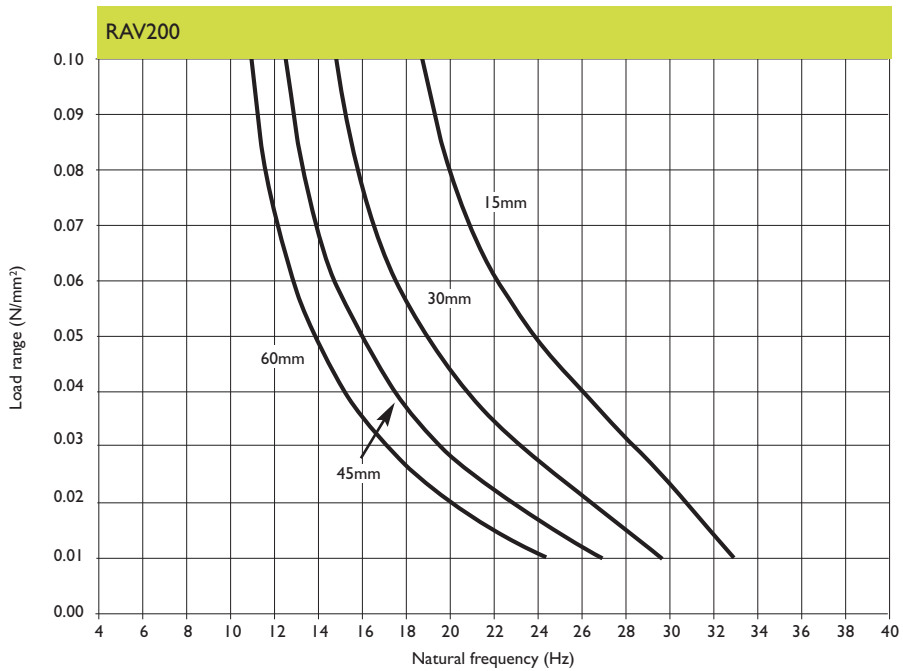
I Load Deflection



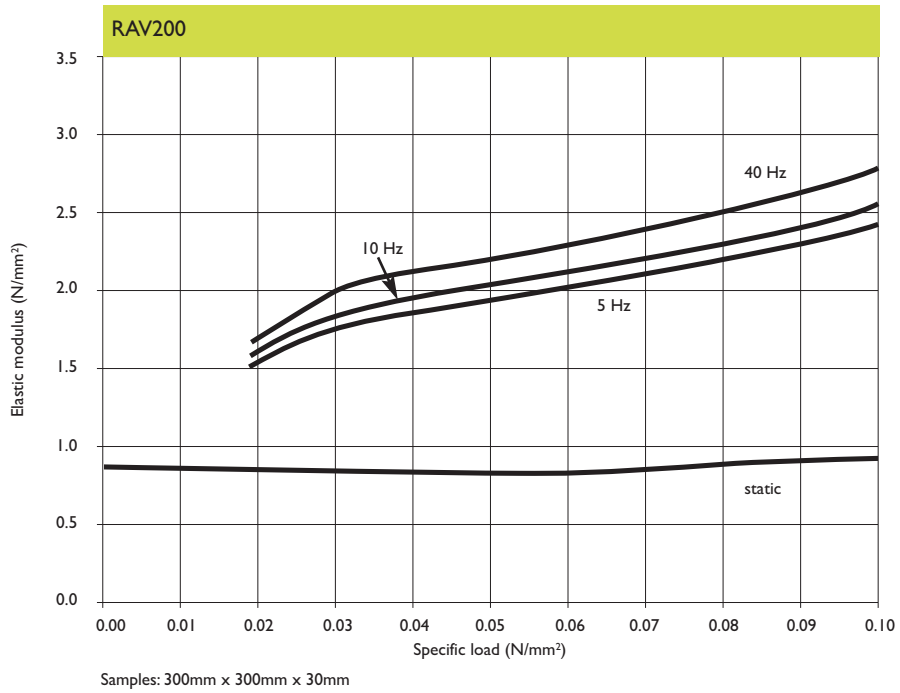
2 Vibration Isolation



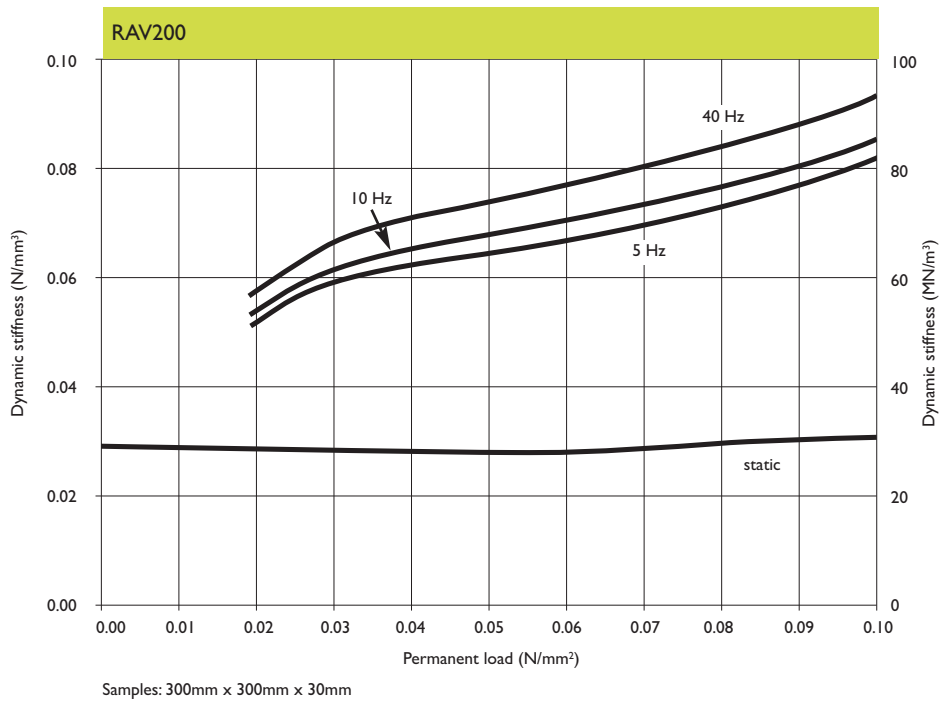
3 Natural Frequency



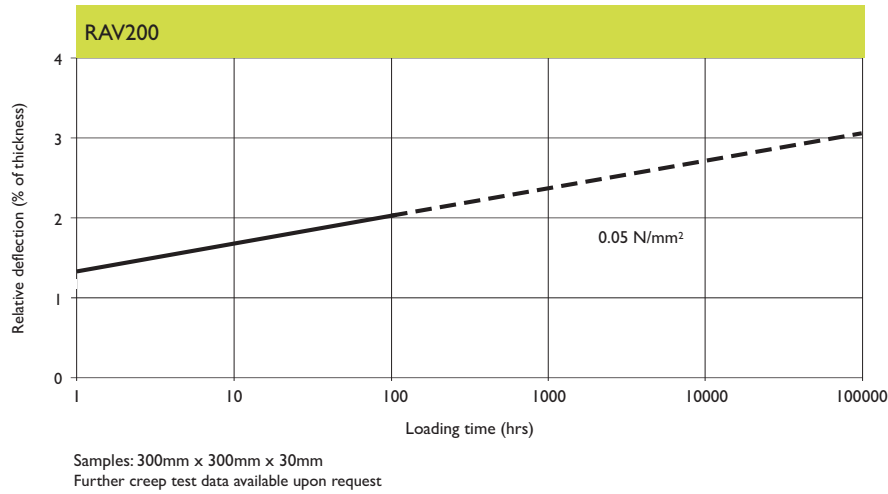
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Physical Properties

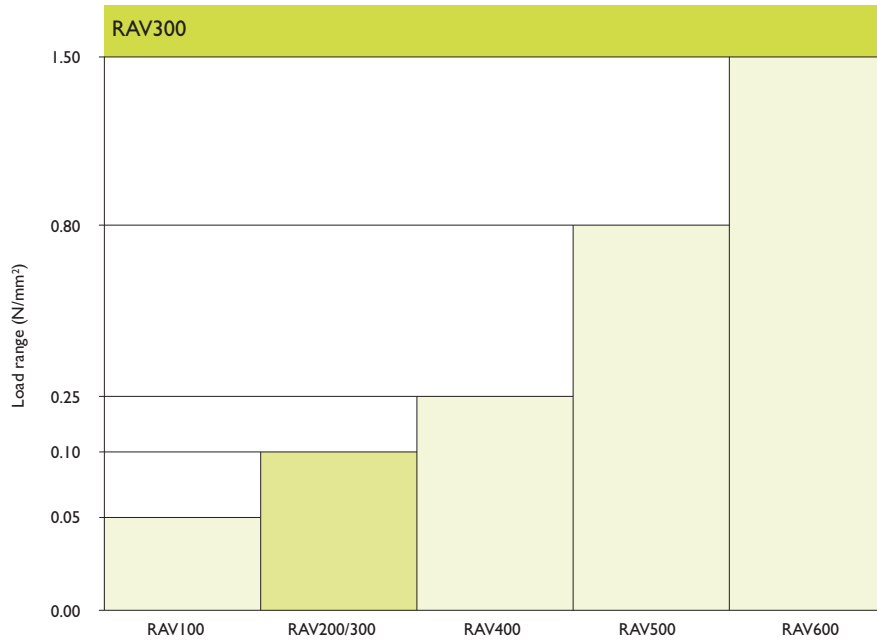
Regupol® is made of polyurethane-bound rubber-granulate.
 Standard thickness: 15mm (other thicknesses are available upon request)
 Roll dimensions: 10m x 1.25m (strips and/or pads are available upon request)
 Permanent static load range: 0.1 N/mm²



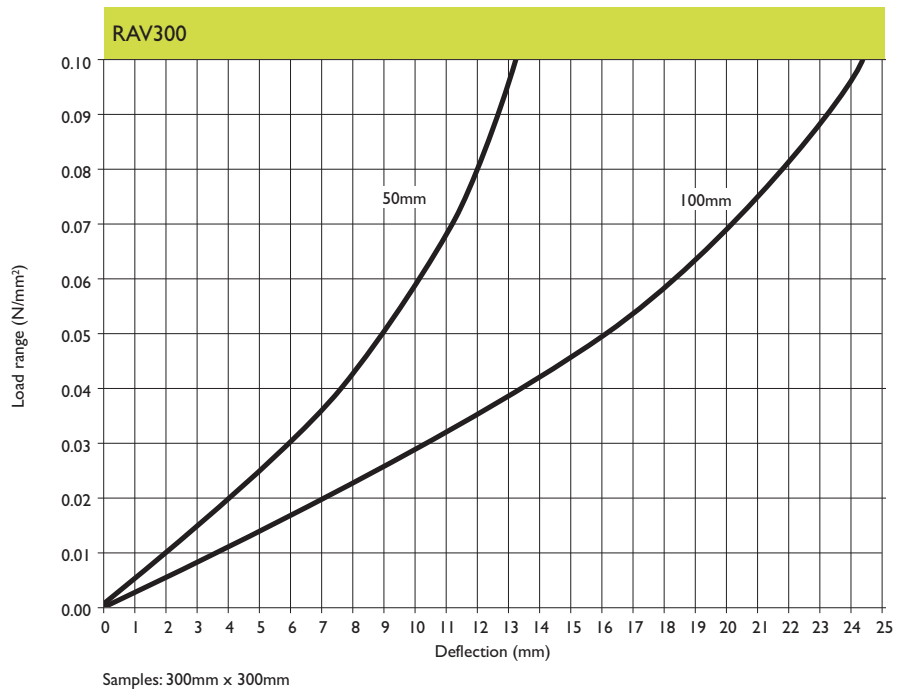
Technical Information

Compression Set	DIN 53572	approx. 4.0	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	0.40	N/mm ²	Minimum
Elongation at Break	DIN 53571	70	%	Minimum
Tear-Resistance	DIN 53515	3.40	N/mm	Minimum
Mechanical Loss Factor	DIN 53513	-	-	
Static Modulus of Elasticity	Similar to EN 826	0.8-0.90	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	0.6-2.20	N/mm ²	Depending on load and frequency, see fig. 5

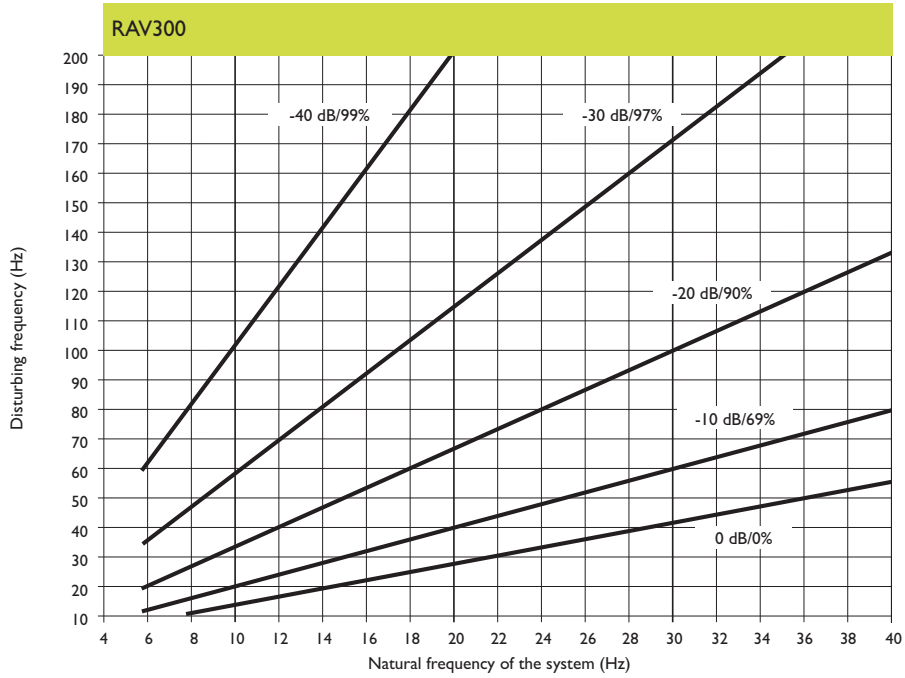
Load Ranges



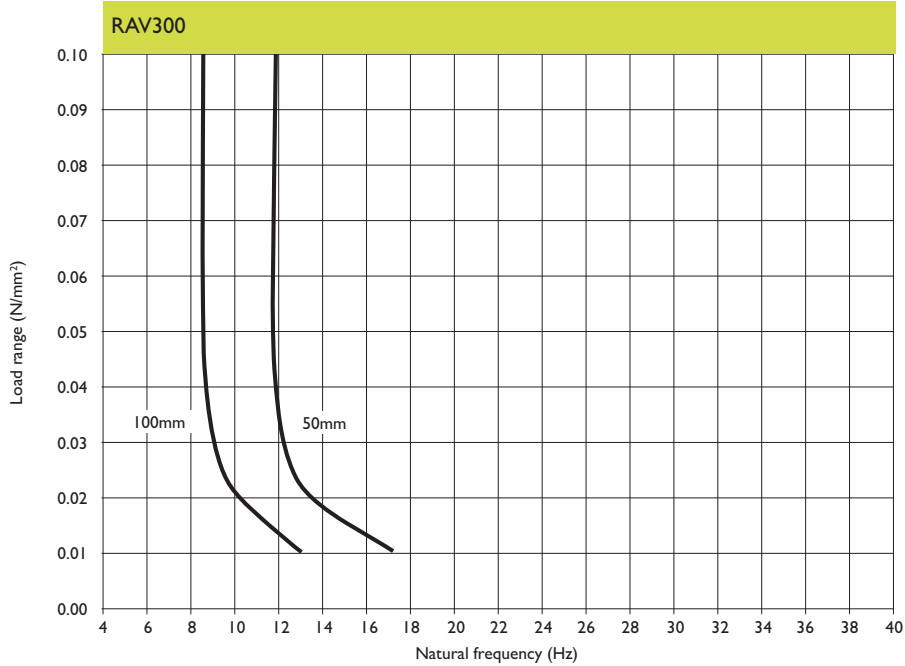
I Load Deflection



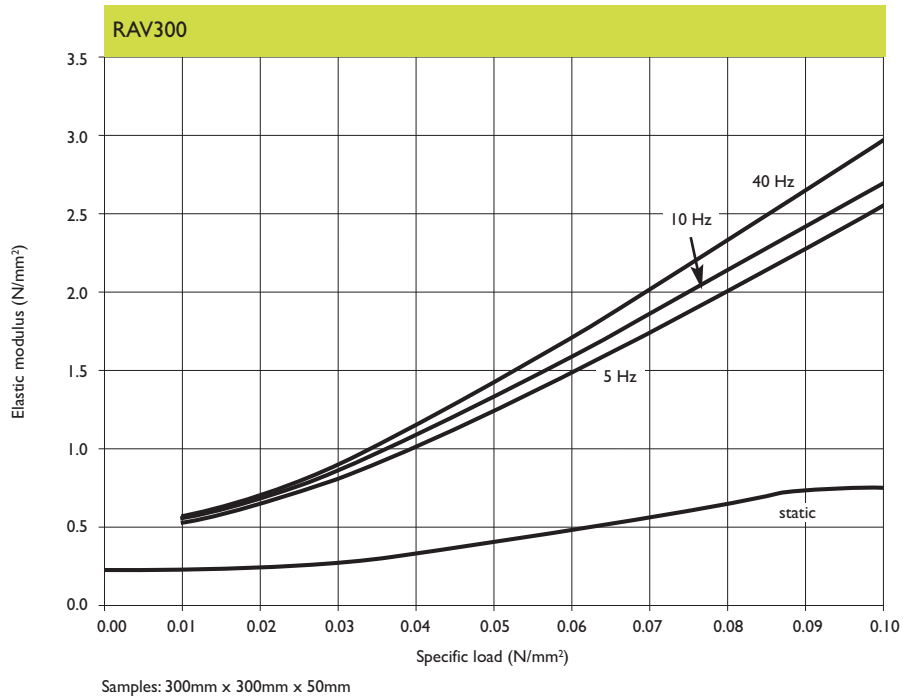
2 Vibration Isolation



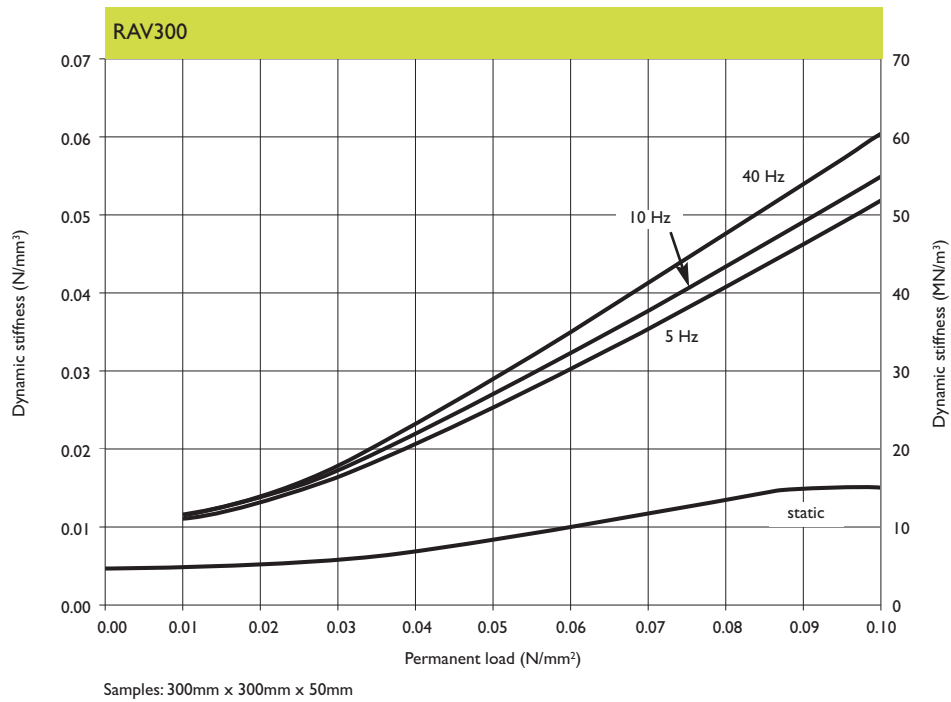
3 Natural Frequency



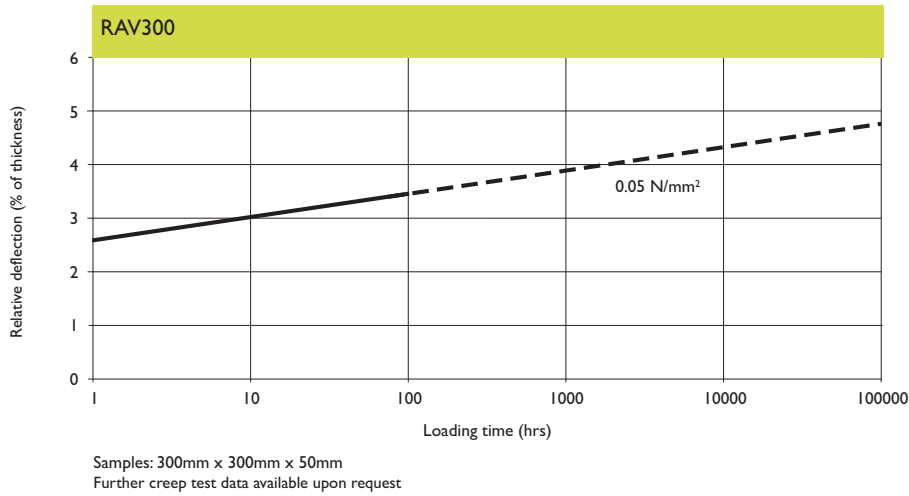
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Physical Properties

Regupol® is made of polyurethane-bound rubber-granulate.
 Standard thickness: 50mm
 Sheet dimensions: 1000mm x 500mm (strips and/or pads are available upon request)
 Permanent static load range: 0.1 N/mm²

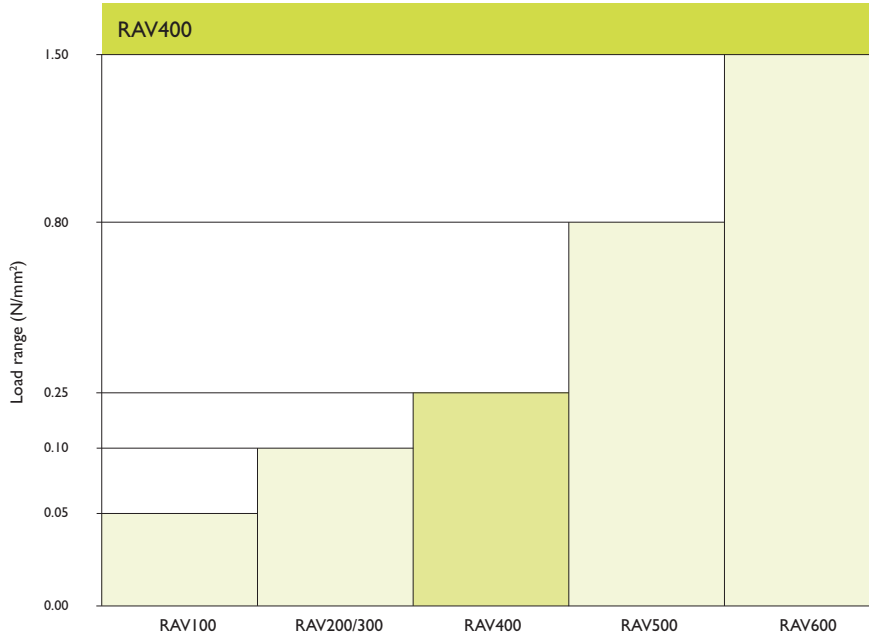


Technical Information

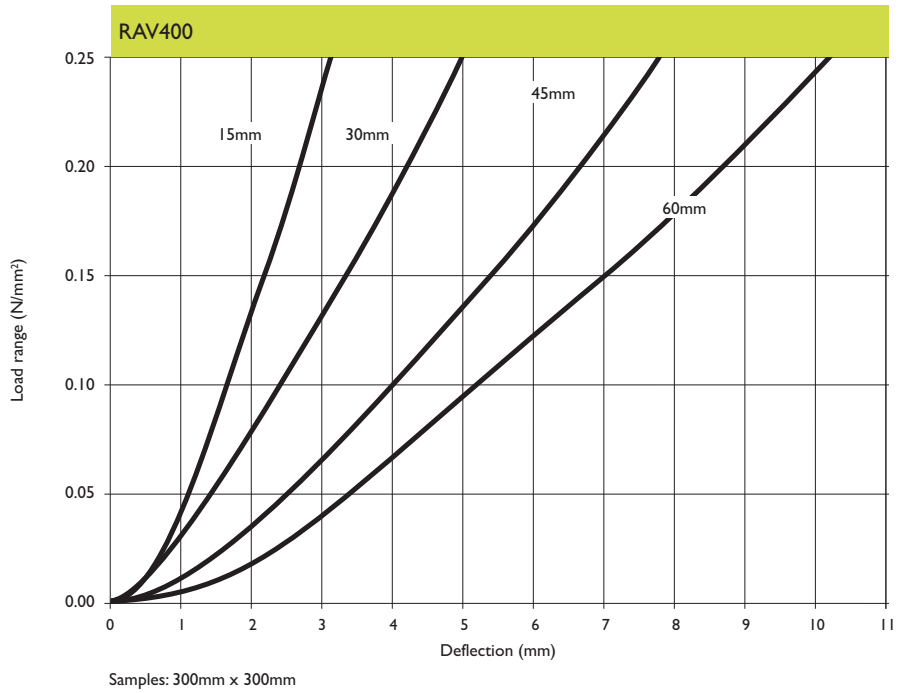
Compression Set	DIN 53572	approx. 5.40	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	0.33	N/mm ²	Minimum (measured on a 10-cm-layer)
Elongation at Break	DIN 53571	50	%	Minimum (measured on a 10-cm-layer)
Tear-Resistance	DIN 53515	2.30	N/mm	Minimum (measured on a 10-cm-layer)
Static Modulus of Elasticity	Similar to EN 826	0.25-0.75	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	0.60-2.90	N/mm ²	Depending on load and frequency, see fig. 5

The information on this data sheet is based on the current state of our knowledge and experience and is subject to changes and production-related variations without notice.

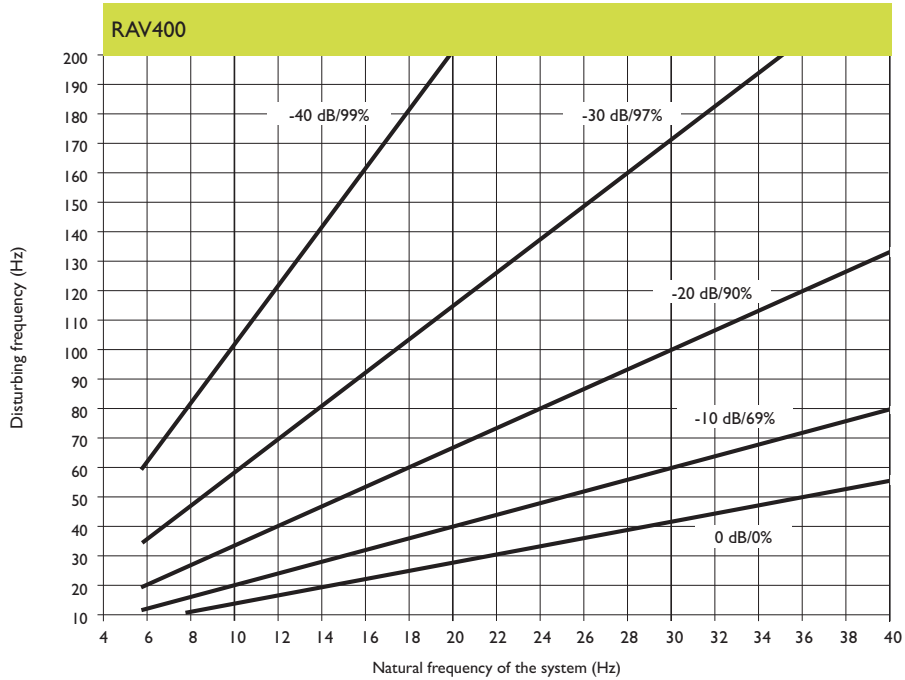
Load Ranges



I Load Deflection

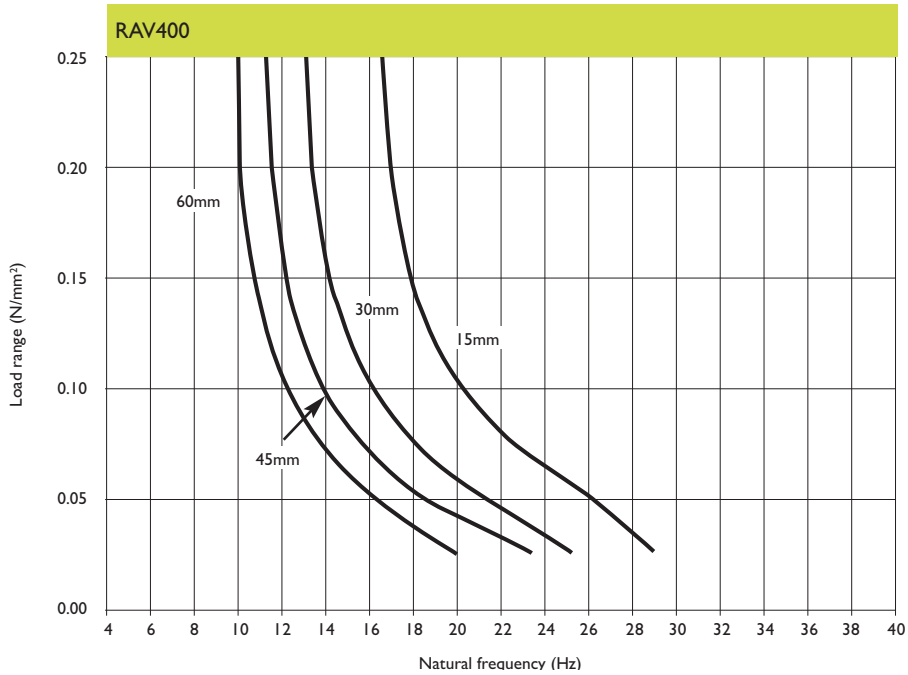


2 Vibration Isolation



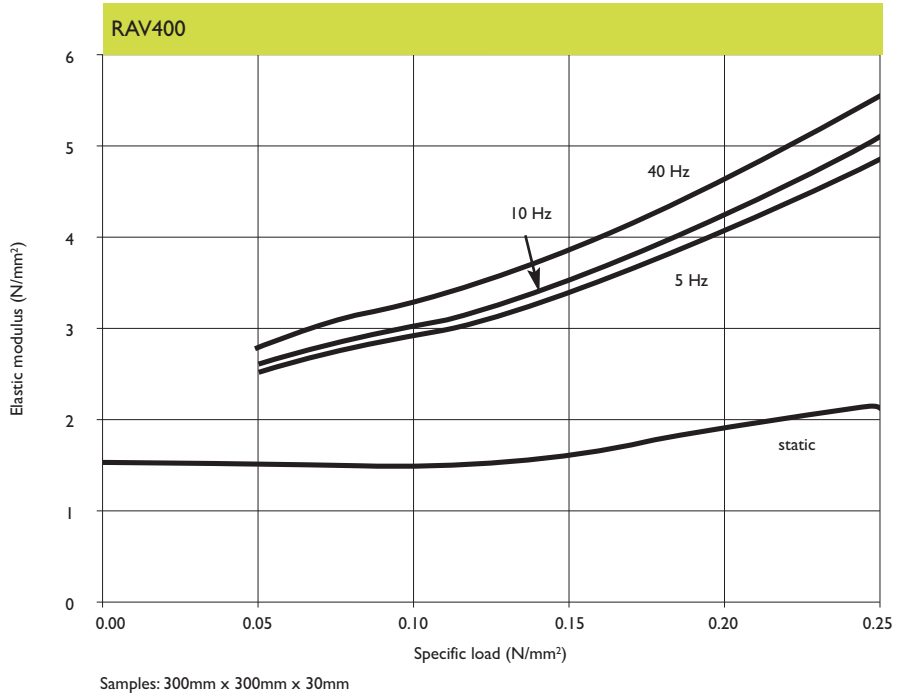
Parameter: Power transmission loss (dB), isolation factor in %

3 Natural Frequency

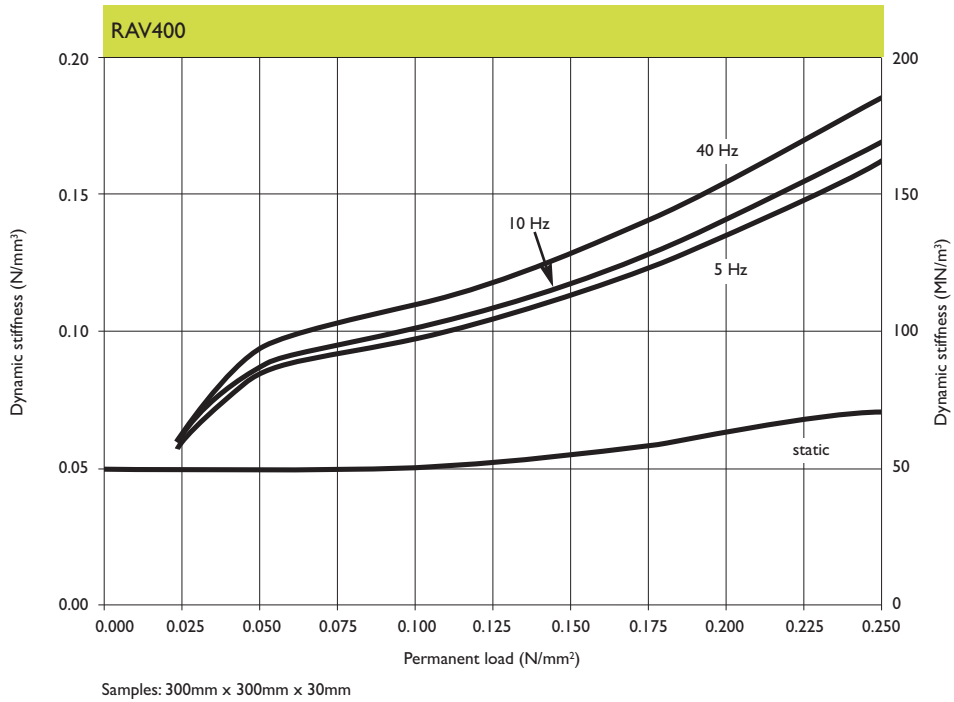


Samples: 300mm x 300mm

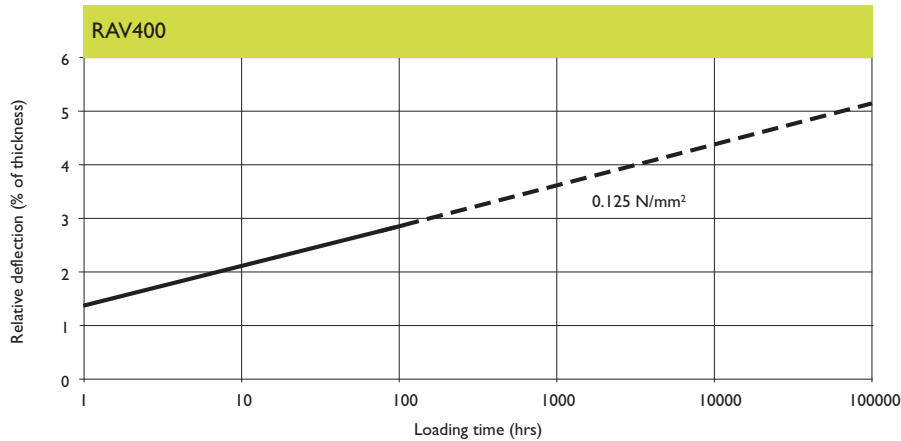
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Samples: 300mm x 300mm x 30mm
Further creep test data available upon request

Physical Properties

Regupol® is made of polyurethane-bound rubber-granulate.
Standard thickness: 6mm/15mm (other thicknesses available upon request)
Roll dimensions: 10m x 1.25m (strips and/or pads are available upon request)
Permanent static load range: 0.25 N/mm²

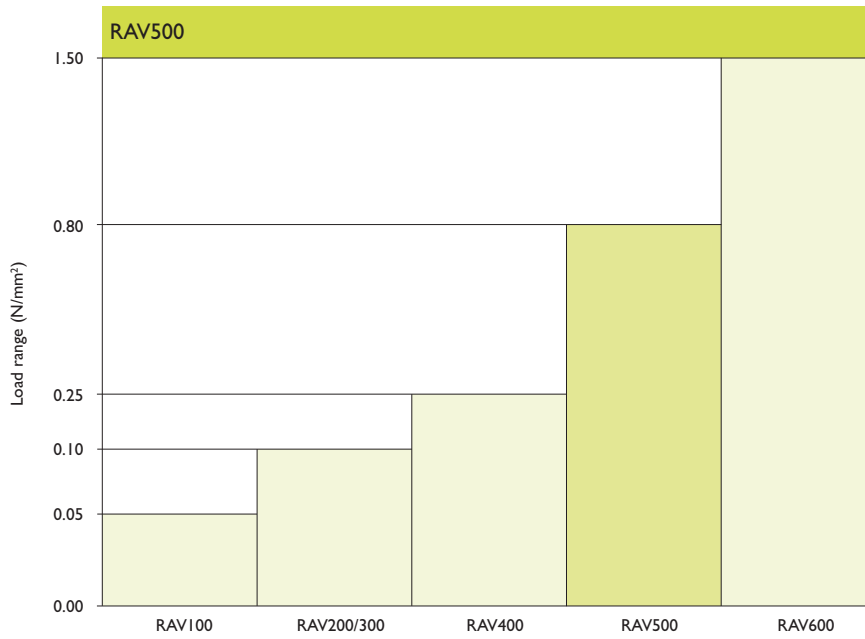


Technical Information

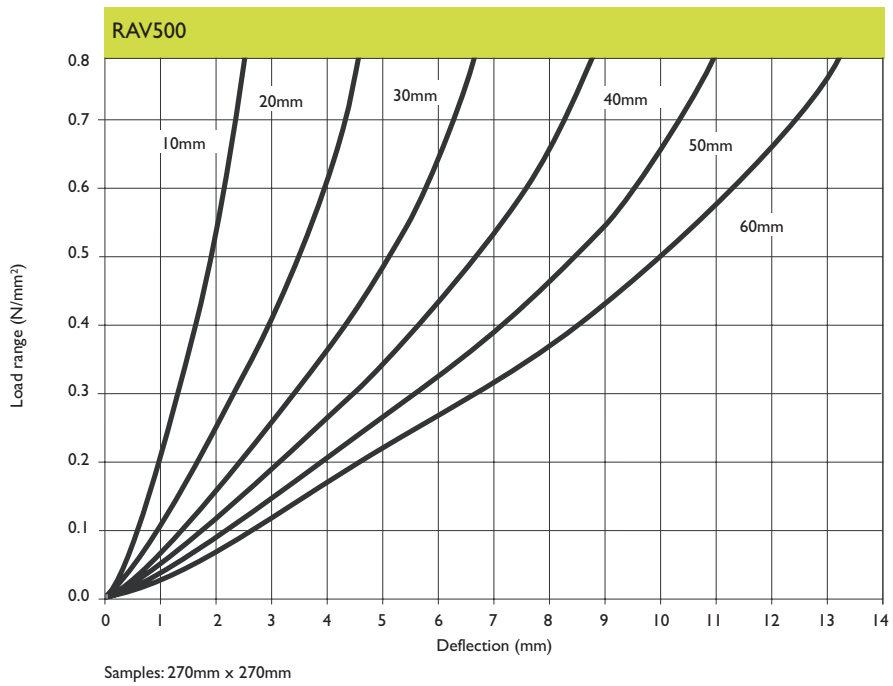
Compression Set	DIN 53572	approx. 4.60	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	0.65	N/mm ²	Minimum
Elongation at Break	DIN 53571	65	%	Minimum
Tear-Resistance	DIN 53515	6.0	N/mm	Minimum
Static Modulus of Elasticity	Similar to EN 826	1.20-1.90	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	1.10-4.40	N/mm ²	Depending on load and frequency, see fig. 5

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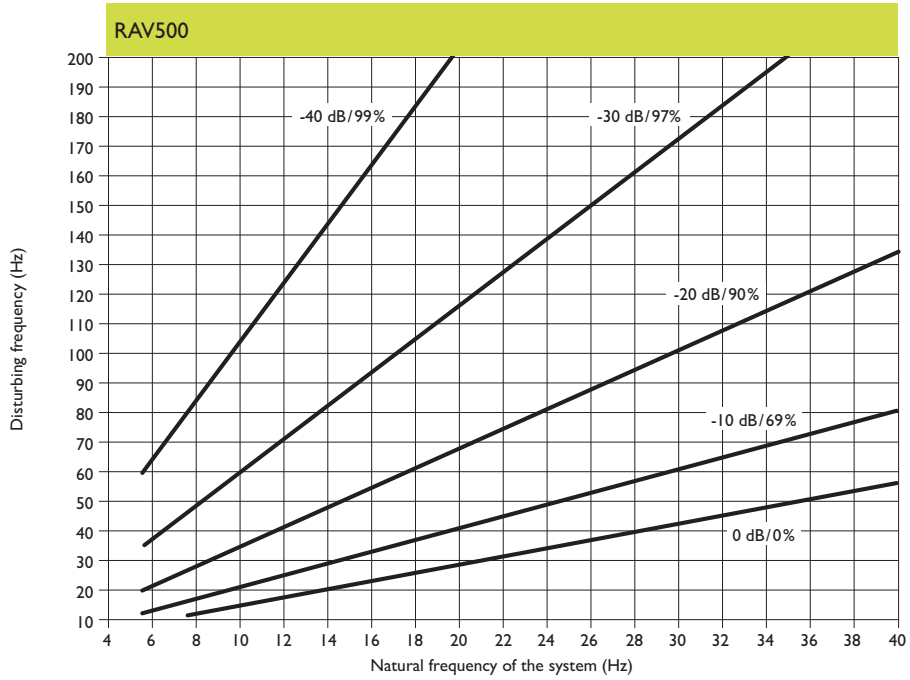
Load Ranges



I Load Deflection

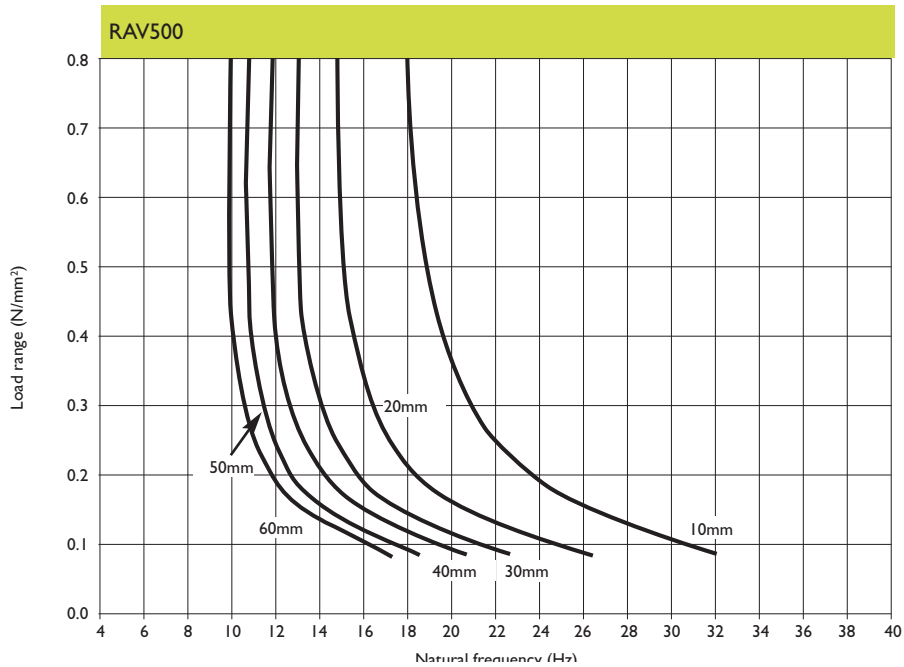


2 Vibration Isolation



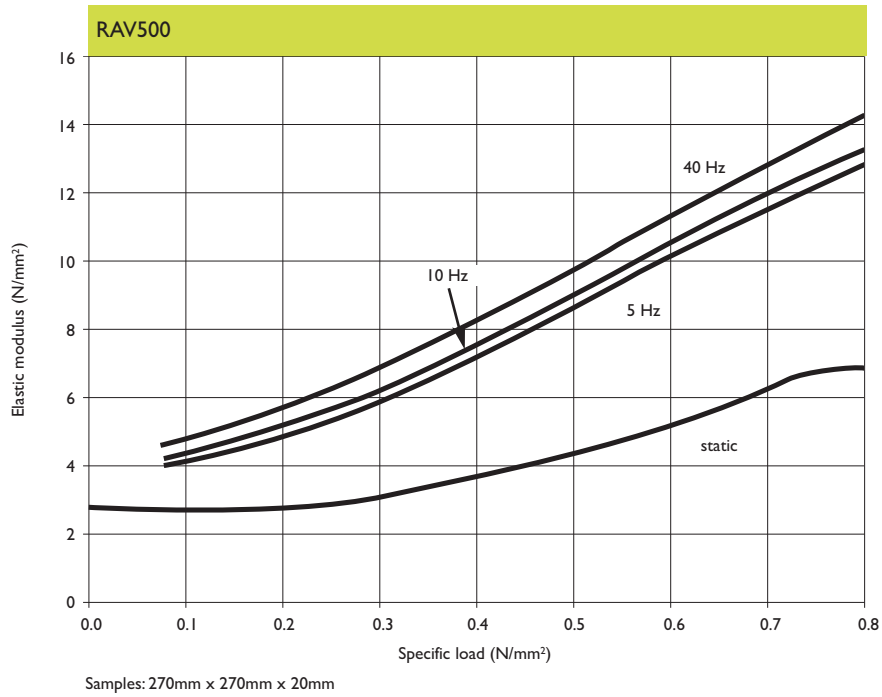
Parameter: Power transmission loss (dB), isolation factor in %

3 Natural Frequency

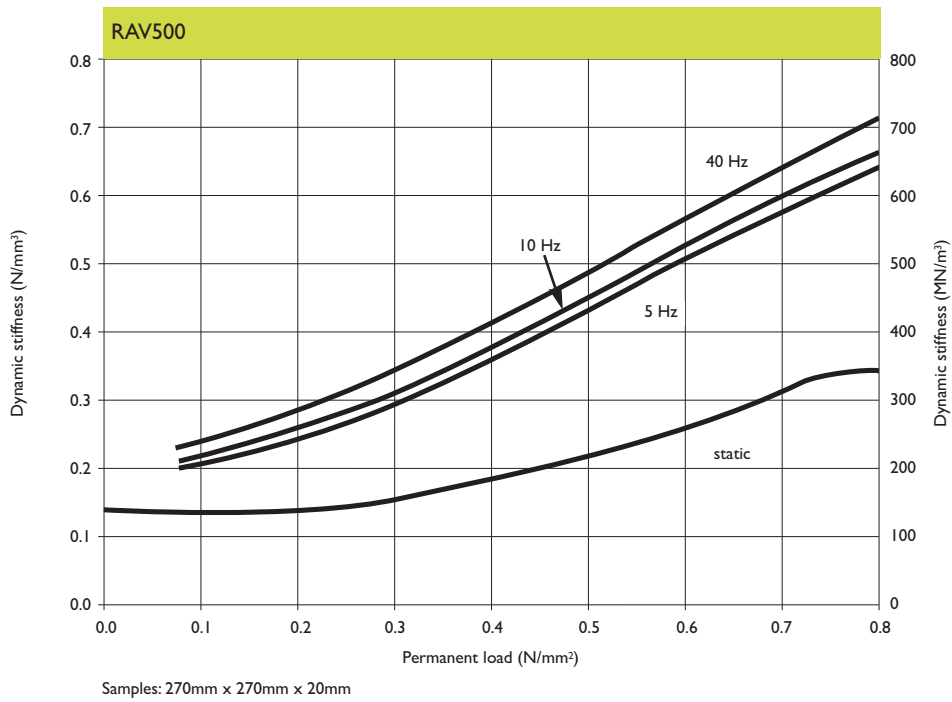


Samples: 270mm x 270mm

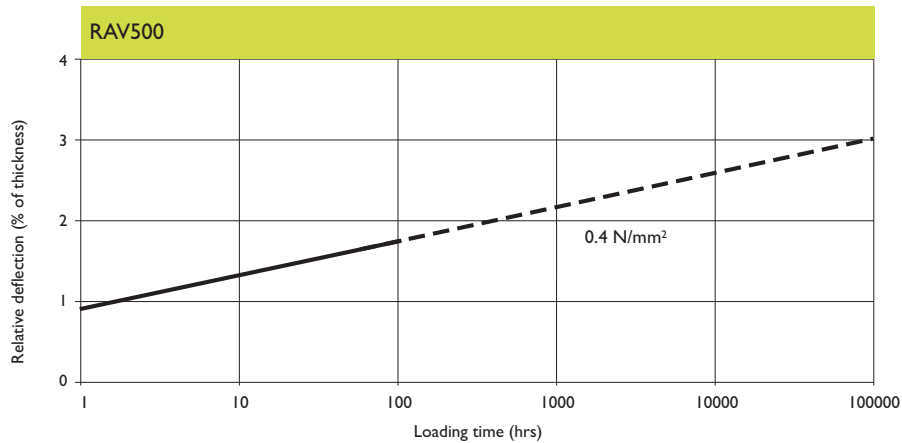
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Samples: 270mm x 270mm x 30mm
Further creep test data available upon request

Physical Properties

Regupol® is made of polyurethane-bound rubber-granulate.
Standard thickness: 6mm/10mm (other thicknesses available upon request)
Roll dimensions: 10m x 1.25m (strips and/or pads are available upon request)
Permanent static load range: 0.8 N/mm²

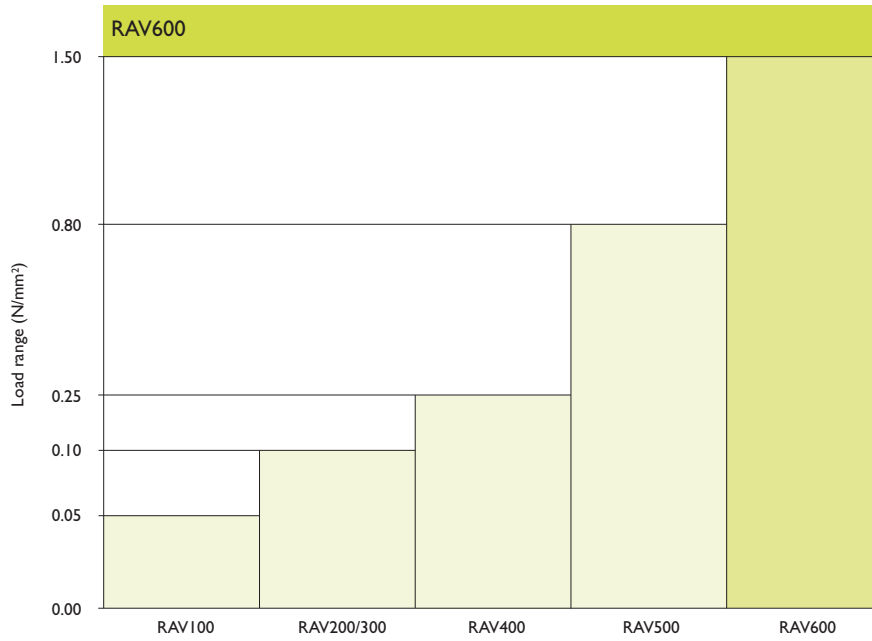


Technical Information

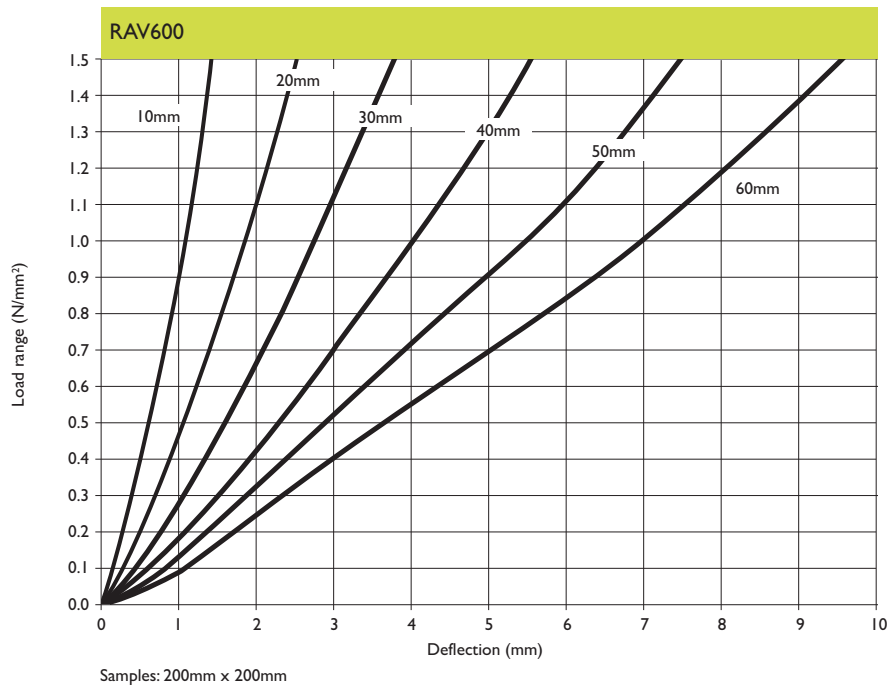
Compression Set	DIN 53572	approx. 5.90	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	0.90	N/mm ²	Minimum
Elongation at Break	DIN 53571	85	%	Minimum
Tear-Resistance	DIN 53515	8.0	N/mm	Minimum
Static Modulus of Elasticity	Similar to EN 826	2.50-5.50	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	3.0-8.80	N/mm ²	Depending on load and frequency, see fig. 5

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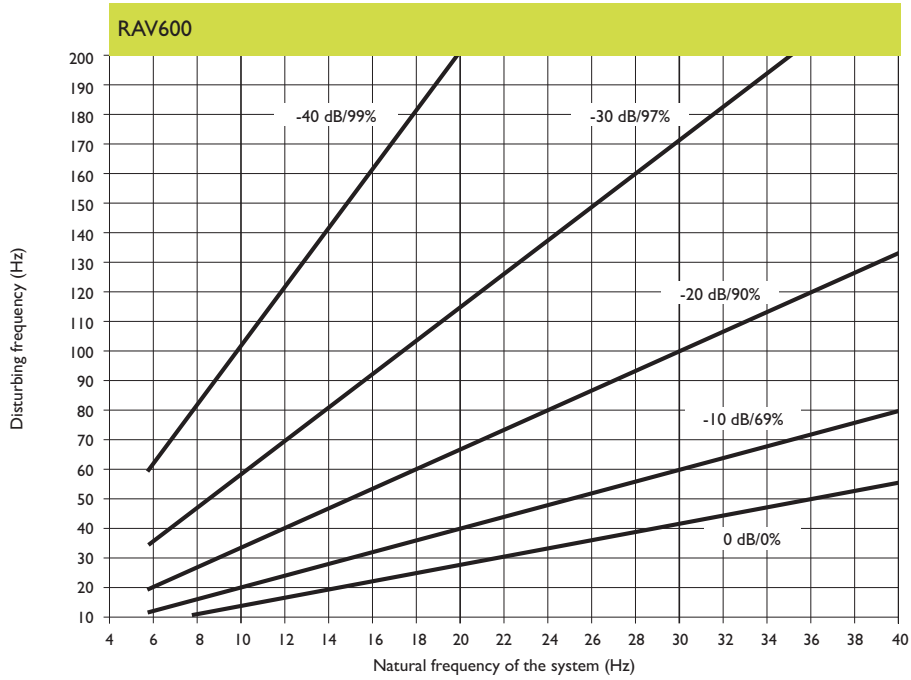
Load Ranges



I Load Deflection

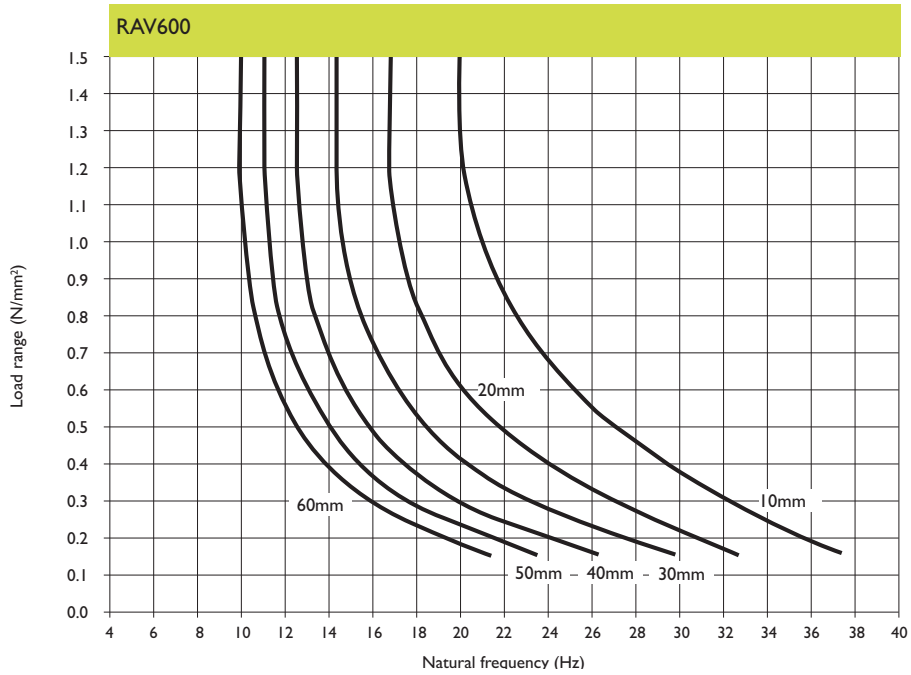


2 Vibration Isolation



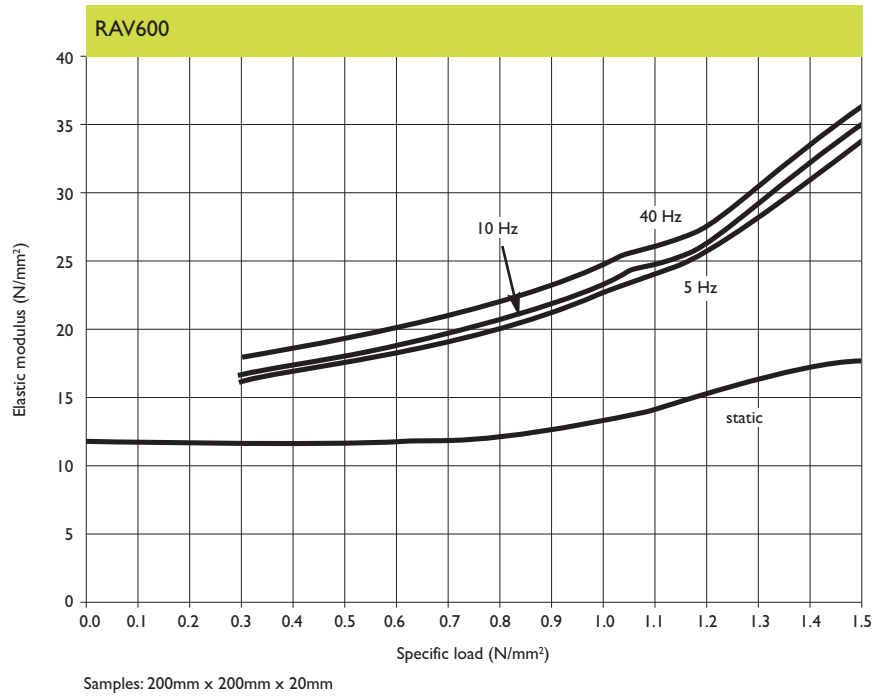
Parameter: Power transmission loss (dB), isolation factor in %

3 Natural Frequency

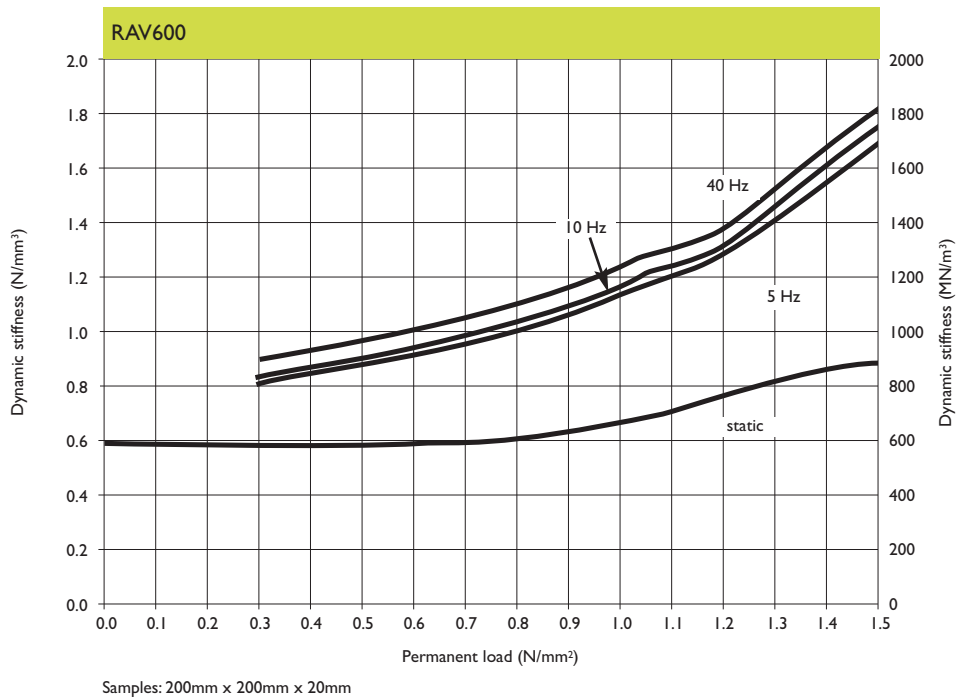


Samples: 200mm x 200mm

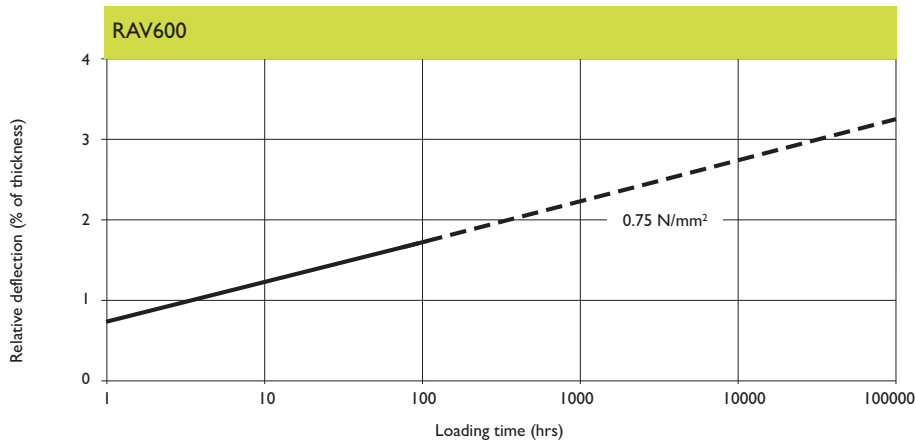
4 Modulus of Elasticity



5 Dynamic Stiffness



6 Long-term Creep Test



Samples: 200mm x 200mm x 30mm
Further creep test data available upon request

Physical Properties

Regupol® is made of polyurethane-bound rubber-granulate.
Standard thickness: 10mm (other thicknesses available upon request)
Roll dimensions: 8m x 1.25m (strips and/or pads are available upon request)
Permanent static load range: 1.5 N/mm²



Technical Information

Compression Set	DIN 53572	approx. 5.0	%	Measured 30 minutes after decompression with 50% deformation/23°C after 72 hrs.
Tensile Strength	DIN 53571	2.20	N/mm ²	Minimum
Elongation at Break	DIN 53571	120	%	Minimum
Tear-Resistance	DIN 53515	16.0	N/mm	Minimum
Static Modulus of Elasticity	Similar to EN 826	9.80-14.0	N/mm ²	Tangential modulus see fig. 5
Dynamic Modulus of Elasticity	DIN 53513	4.0-18.50	N/mm ²	Depending on load and frequency, see fig. 5

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CMS Vibration Solutions

CMS Vibration Solutions is the sole UK, Ireland and Middle East supply partner of Regupol®, and can provide material or systems to meet all anti-vibration requirements from the large portfolio of products manufactured by BSW.

Please contact the CMS Vibration Solutions sales or technical departments for further information and advice.

Also in the CMS Vibration Solutions portfolio: Regufoam®

Regufoam® has been specifically developed and formulated to reduce structure borne noise and offer high performance vibration isolation. Manufactured in various thicknesses and densities, Regufoam® materials are colour coded for ease of identification. With low natural frequency and long term elasticity even under heavy loads, Regufoam® delivers high performance characteristics.

Regufoam® can be used wherever structure borne noise and vibrations require effective isolation, including structural/civil engineering, track laying, mechanical engineering, industrial and ship building sectors.

General M&E Plant

- ACU's
- Refrigeration equipment
- Pumps
- Lift motors
- General workshop machinery
- Generators
- Boilers
- Presses
- Guillotines
- Milling machines

Industrial

- Inertia plinths
- Machinery mounting pads/strips
- Foundation isolation
- Mass spring systems
- Plant rooms

Structural engineering

- Isolation of steel structures
- Structural bearings
- Resilient seatings
- Stairs and landings

Infrastructure

- Road construction
- Bridge construction
- Rail and tunnel construction

Construction

- Building isolation
- Foundation isolation
- Structural isolation
- Floating floors



Regufoam®

CMS VIBRATION SOLUTIONS

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www.cmsantivibration.co.uk

BSW and BSW product portfolio certified by
DIN EN ISO 9001
DIN EN ISO 14001
OHSAS 18001

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