

CONSTRUCTION | INDUSTRY

Regupol®

Vibration Insulation

Technical
Data for
Regupol®

6010 BA, SH, PL,
HT, XHT, MF



Regupol
(Australia) Pty. Ltd.

www.regupol.com.au

Vibration Absorption and Structure Borne Sound Insulation

The expanded product spectrum for vibration damping with Regupol® includes Regupol® types characterized by different load bearing characteristics. Regupol® vibration insulation consists of a number of different polyurethane-bound rubber granulates that effectively

cover load ranges from 0.01 to 1.50 N/mm² in six different material types. The Institute for Structural Dynamics at Dresden Technical University has carried out extensive studies of these material types. Regupol® has been known for many

years for its homogeneity and as a reliable product in the field of vibration insulation. With the expanded product spectrum and coverage of higher load ranges, BSW is now upgrading its competence in the area of vibration technology.

Fields of application

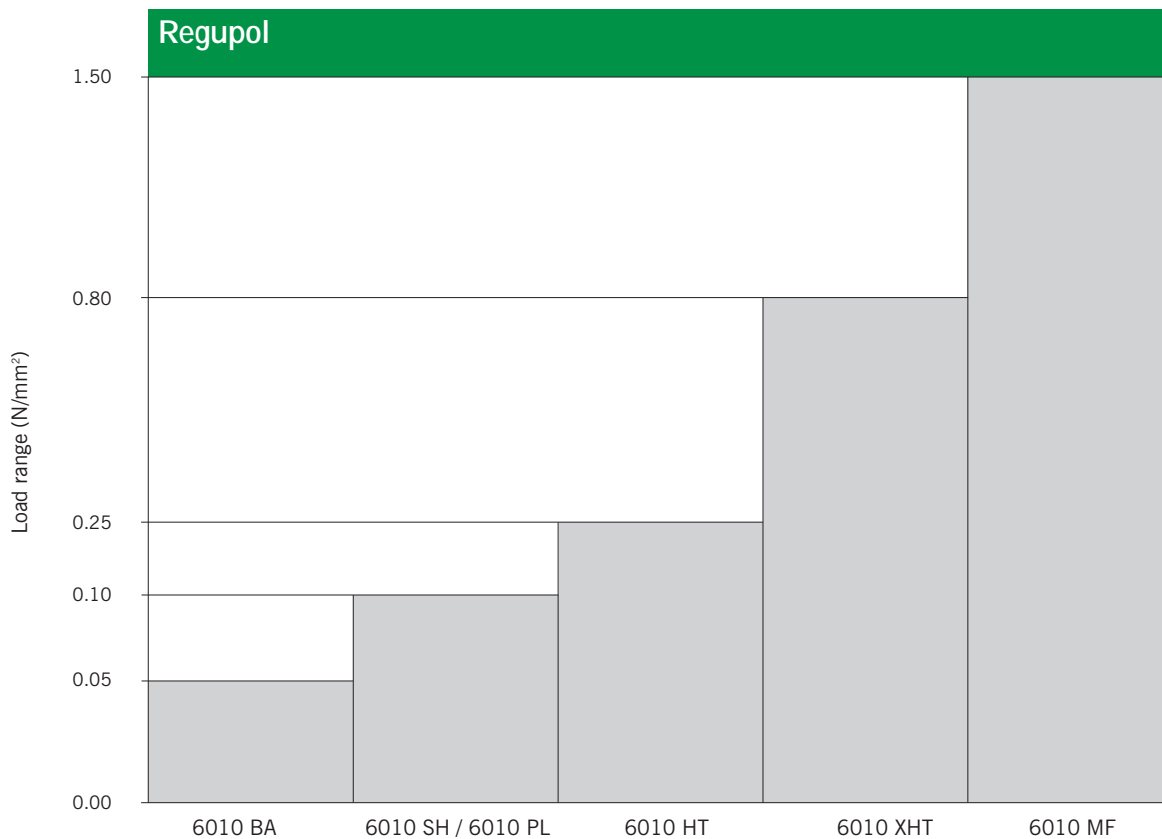
Road construction

In track-laying and tunnel construction, as well as in road and bridge construction, BSW materials are used to damp vibrations and to protect structures from damaging vibrations.

Foundations

Buildings with load distribution plates rest on Regupol® to protect them against ground vibrations.

Load Ranges



Structural engineering

Whether in lift motors, pumps, ventilation systems or block-type thermal power stations, Regupol® is easy to install and has a long useful life.

Industry

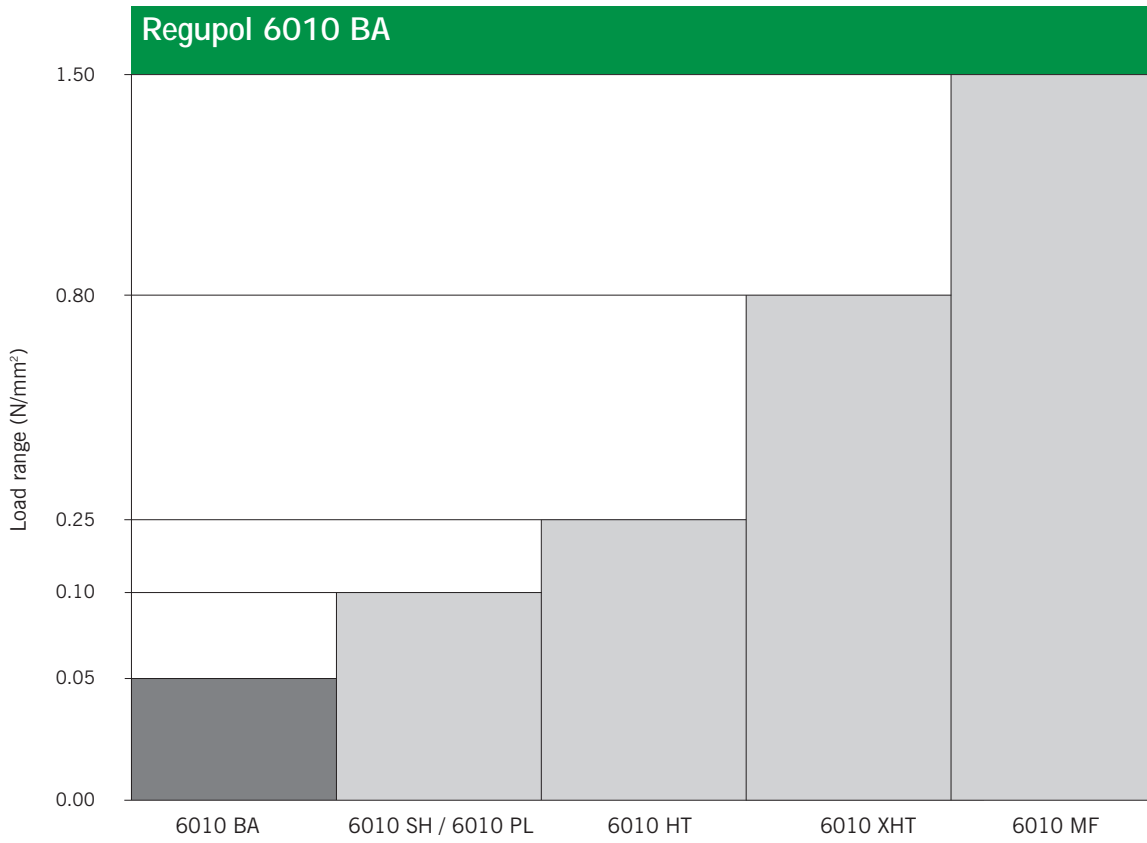
In industrial applications, Regupol® is used for active insulation of machines and passive insulation of floor plates on which fine measuring equipment is installed, in laboratory rooms and in measuring booths. Both sub-critical and hyper-critical mounts are possible.

Standard sizes, on stock:

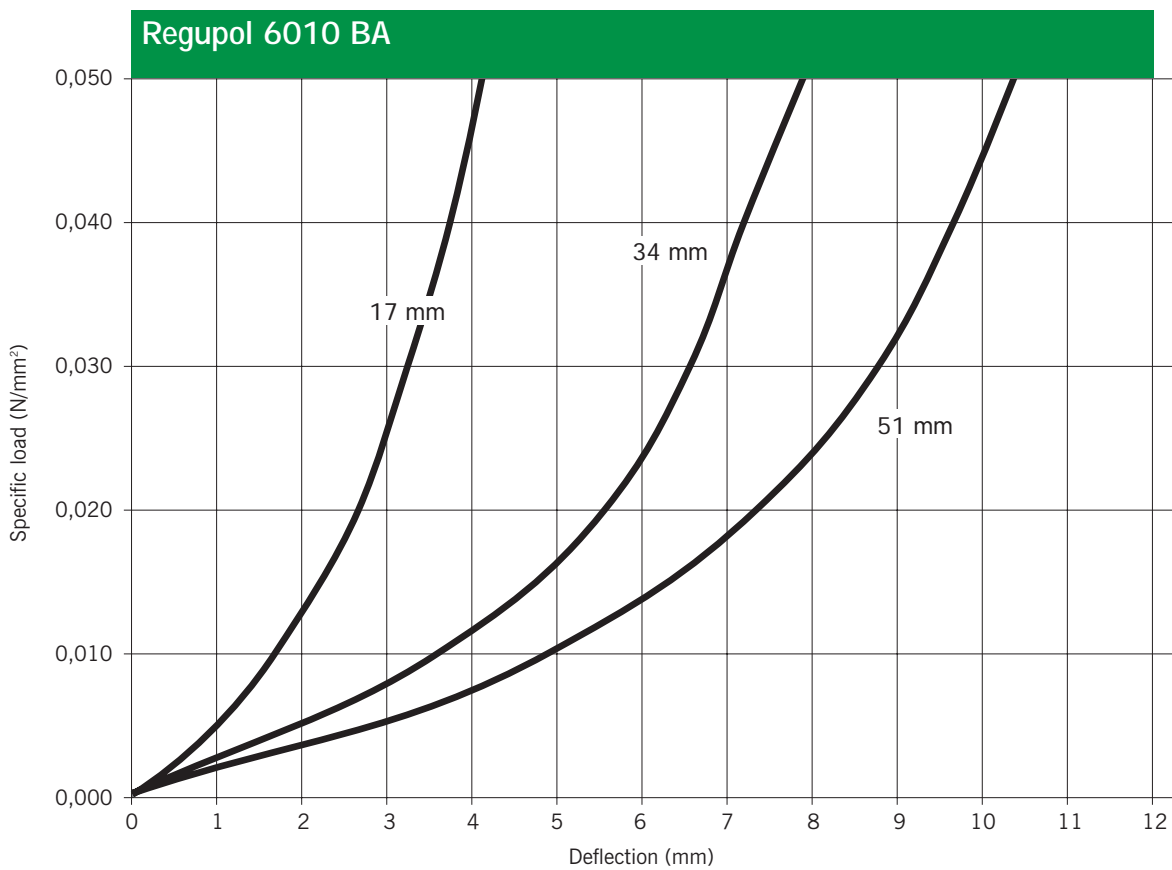
Thickness:
Thicknesses vary according to type.
Special thicknesses available on request.

Rolls:
width 1,250 mm
length 10,000 mm
Special lengths possible
die-cutting, water-jet cutting,
self adhesive possible

Load Ranges

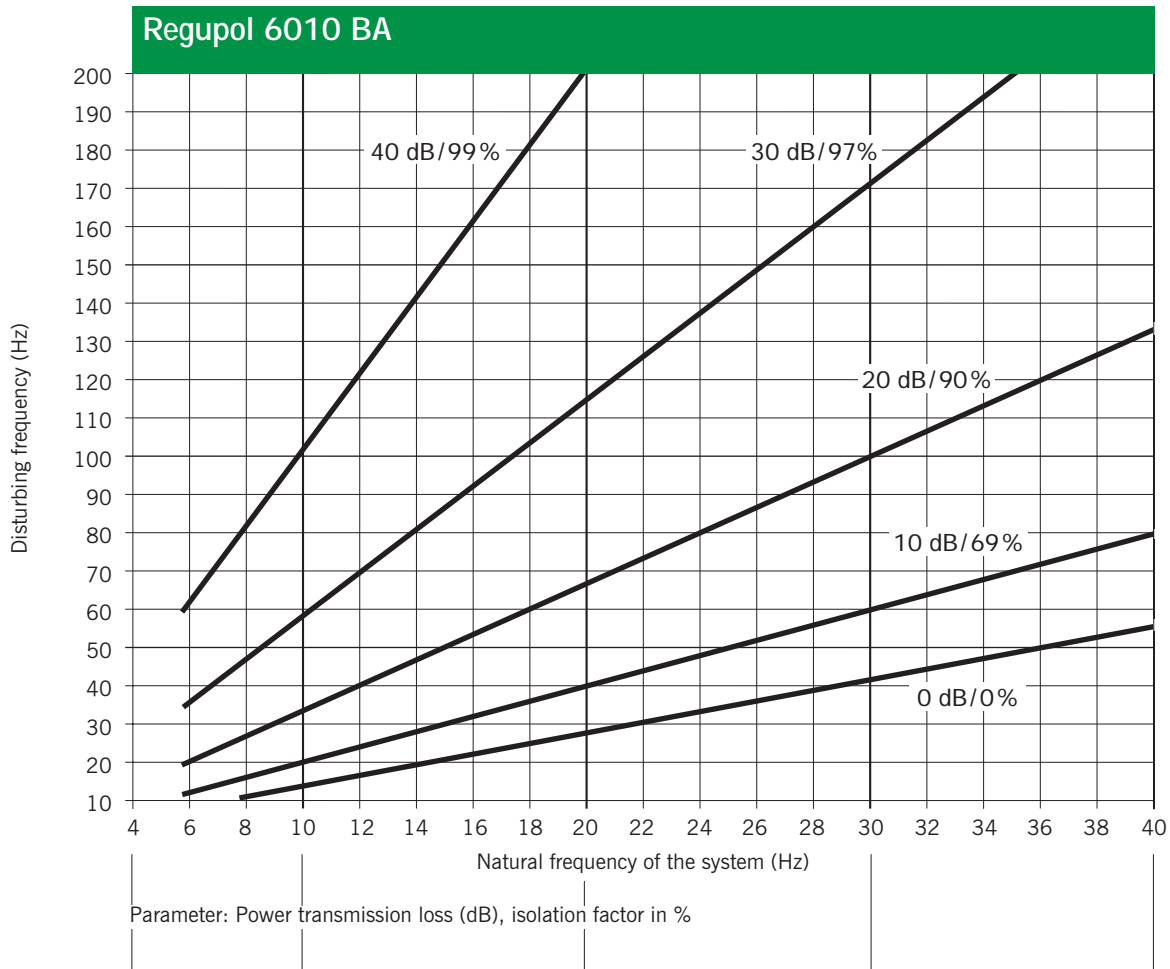


1 Load Deflection

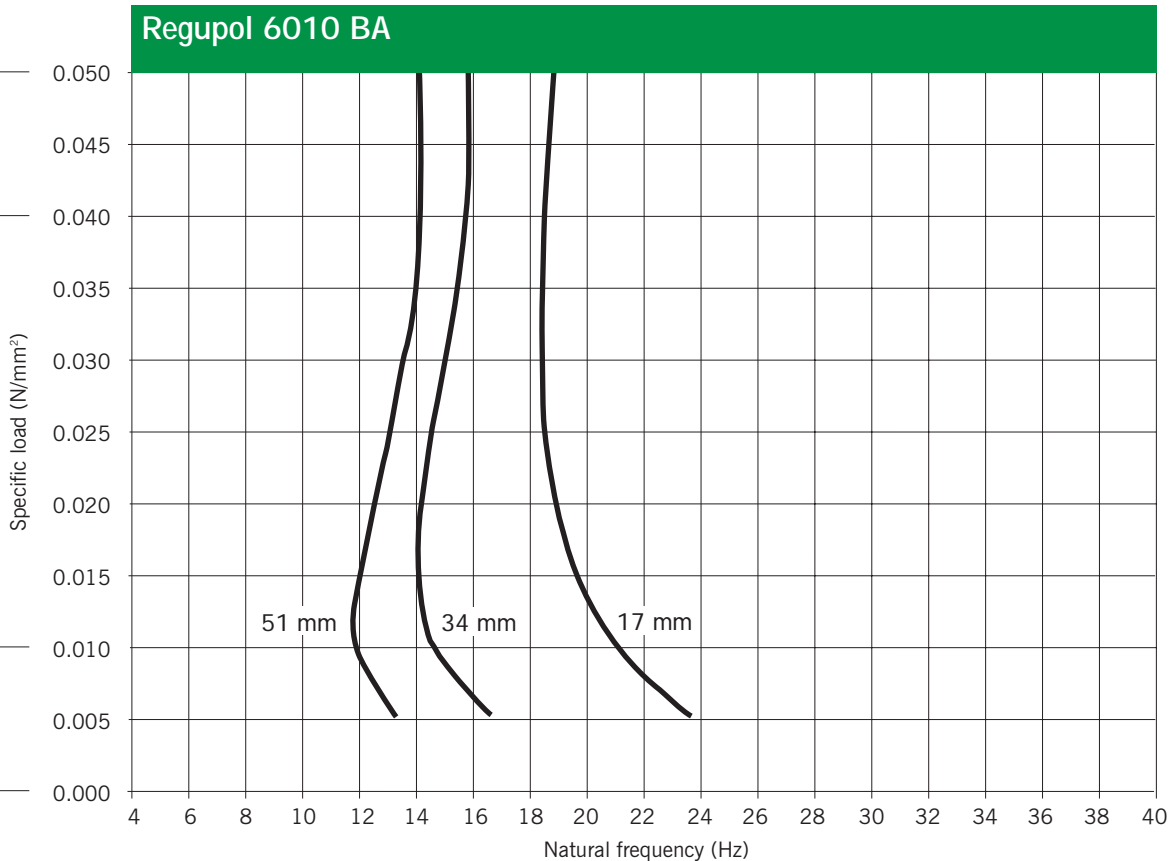


Samples: 300 mm x 300 mm

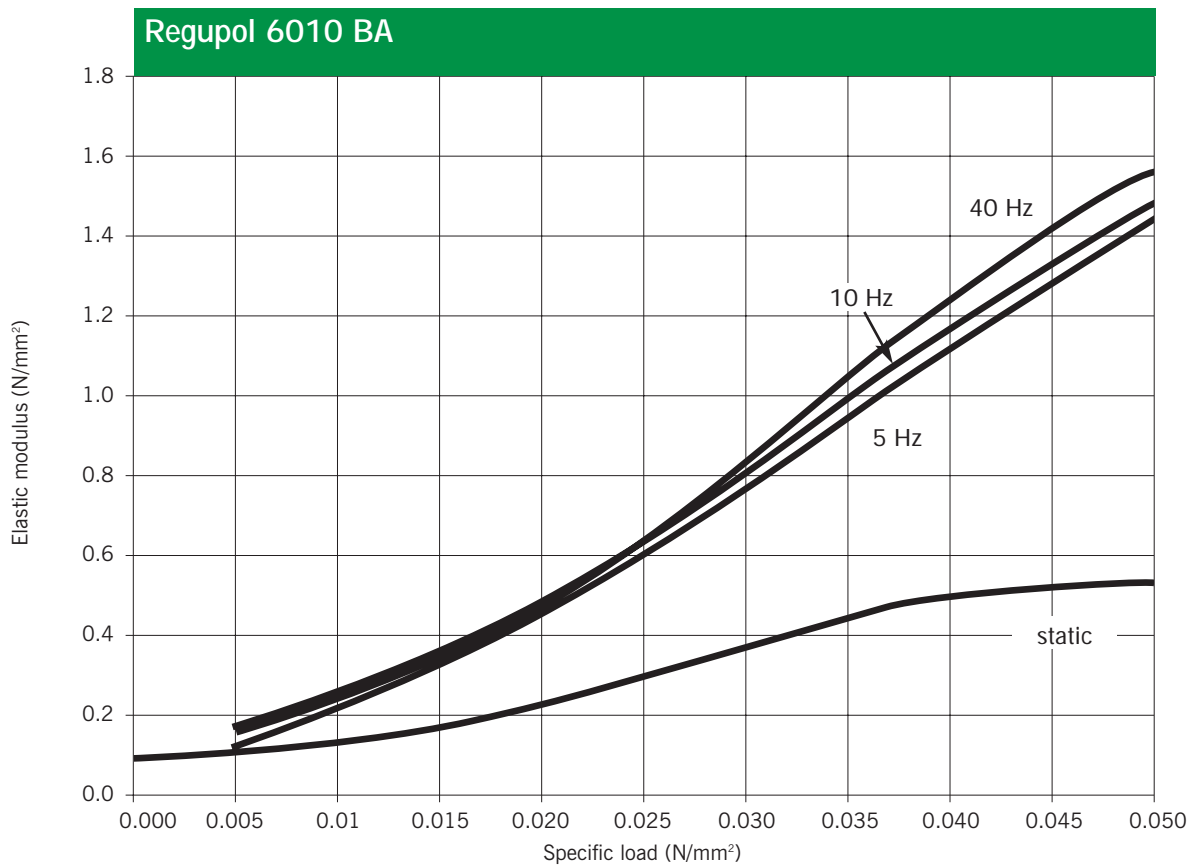
2 Vibration Insulation



3 Natural Frequency

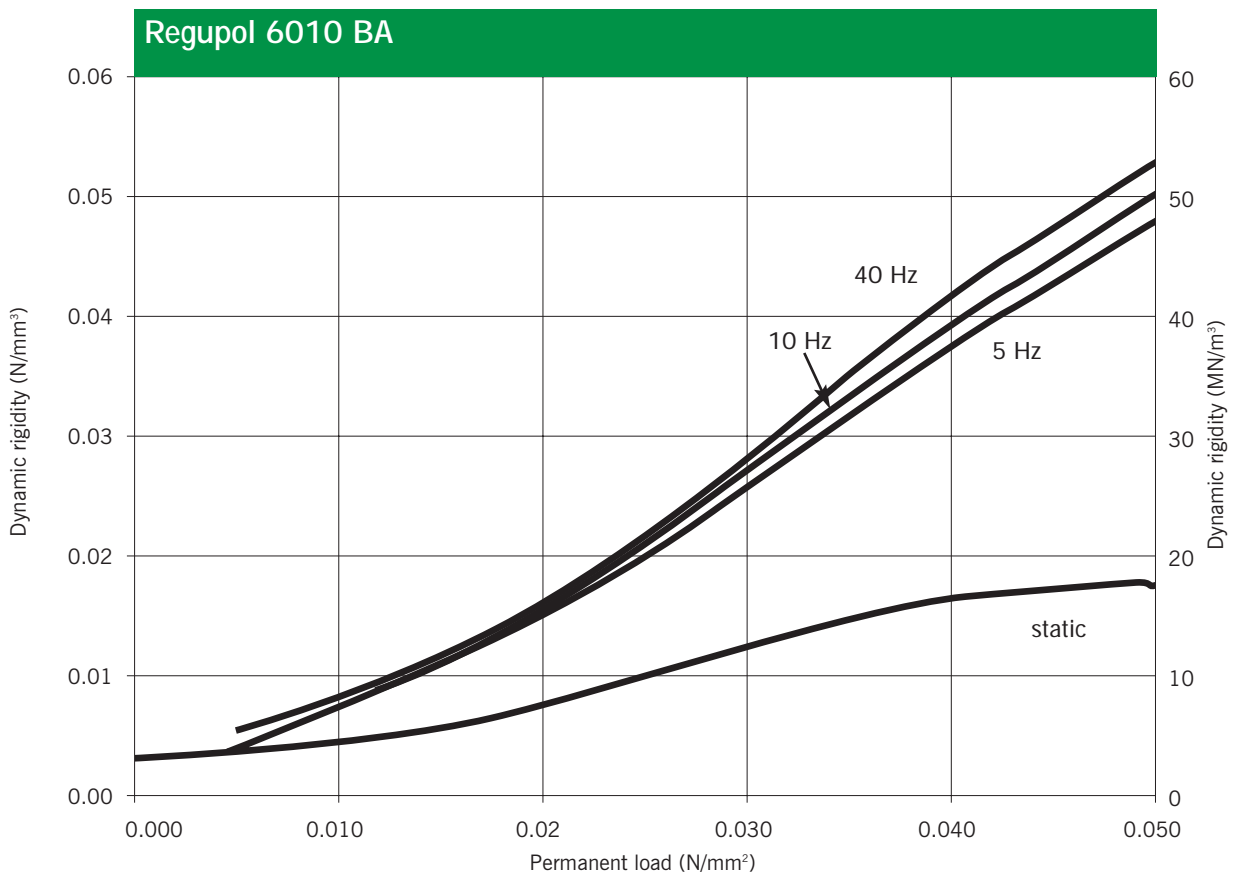


4 Modulus of Elasticity



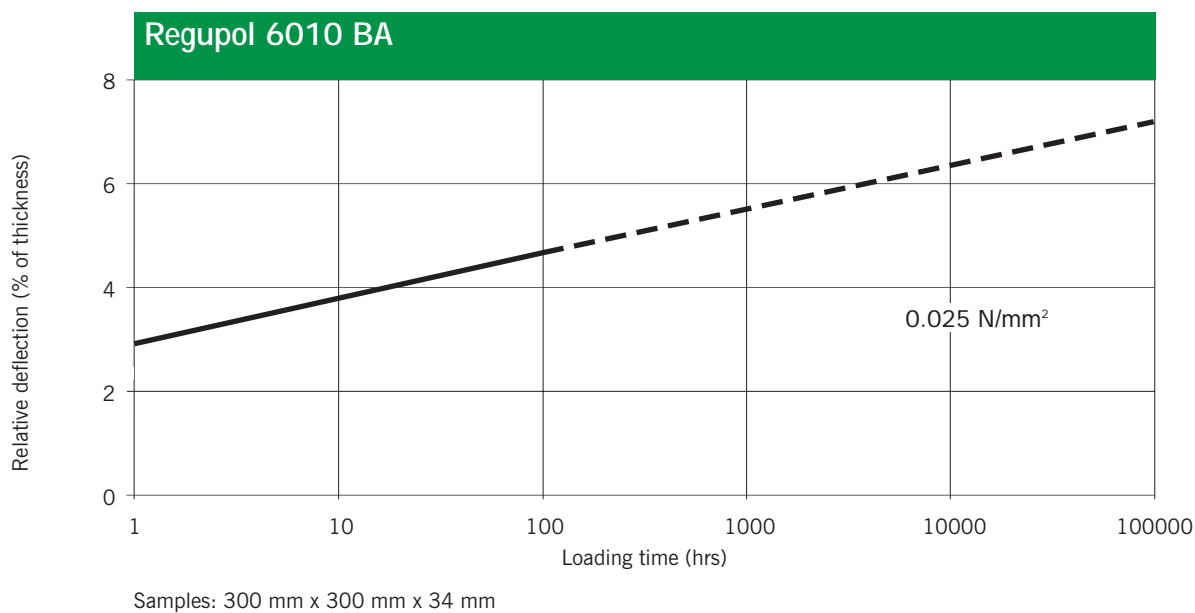
Samples: 300 mm x 300 mm x 34 mm

5 Dynamic Rigidity



Samples: 300 mm x 300 mm x 34 mm

6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 17 mm, profiled

Width: 1,250 mm

Rolls:

Length: 10,000 mm

Stripping/plates:

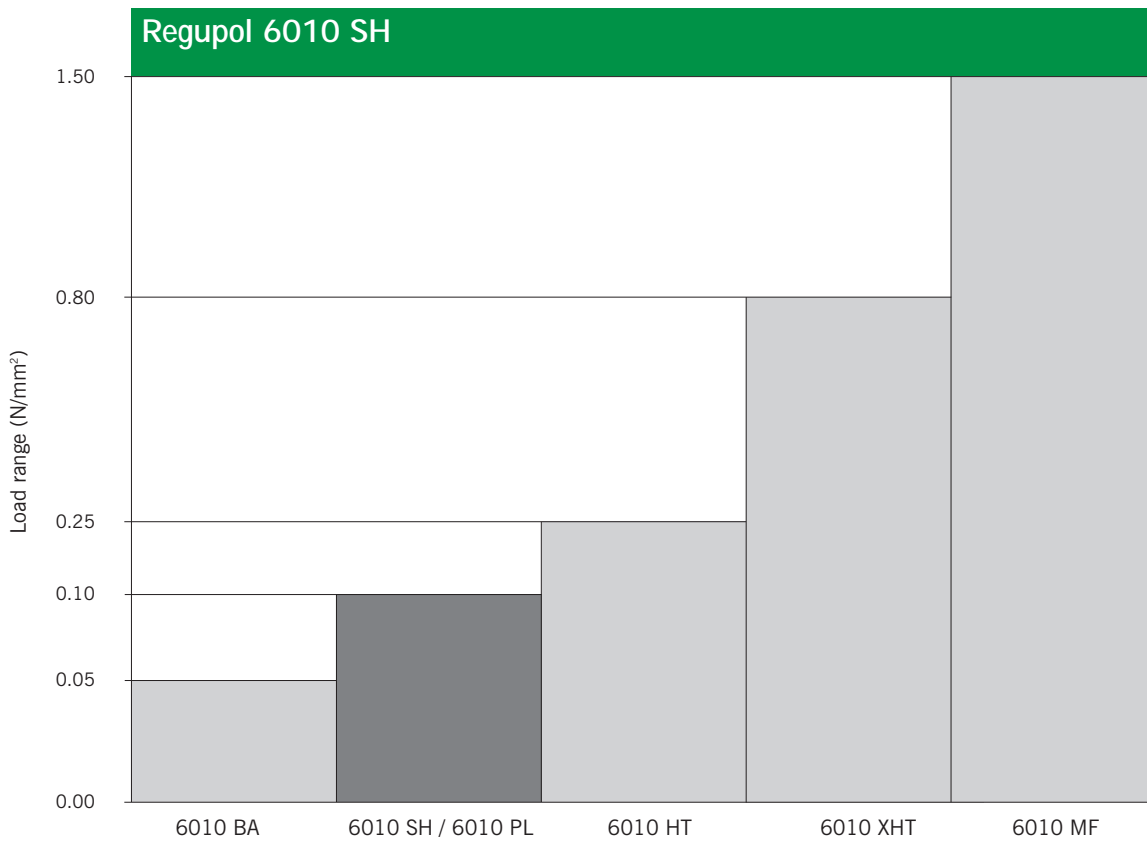
On request

Permanent static load range:

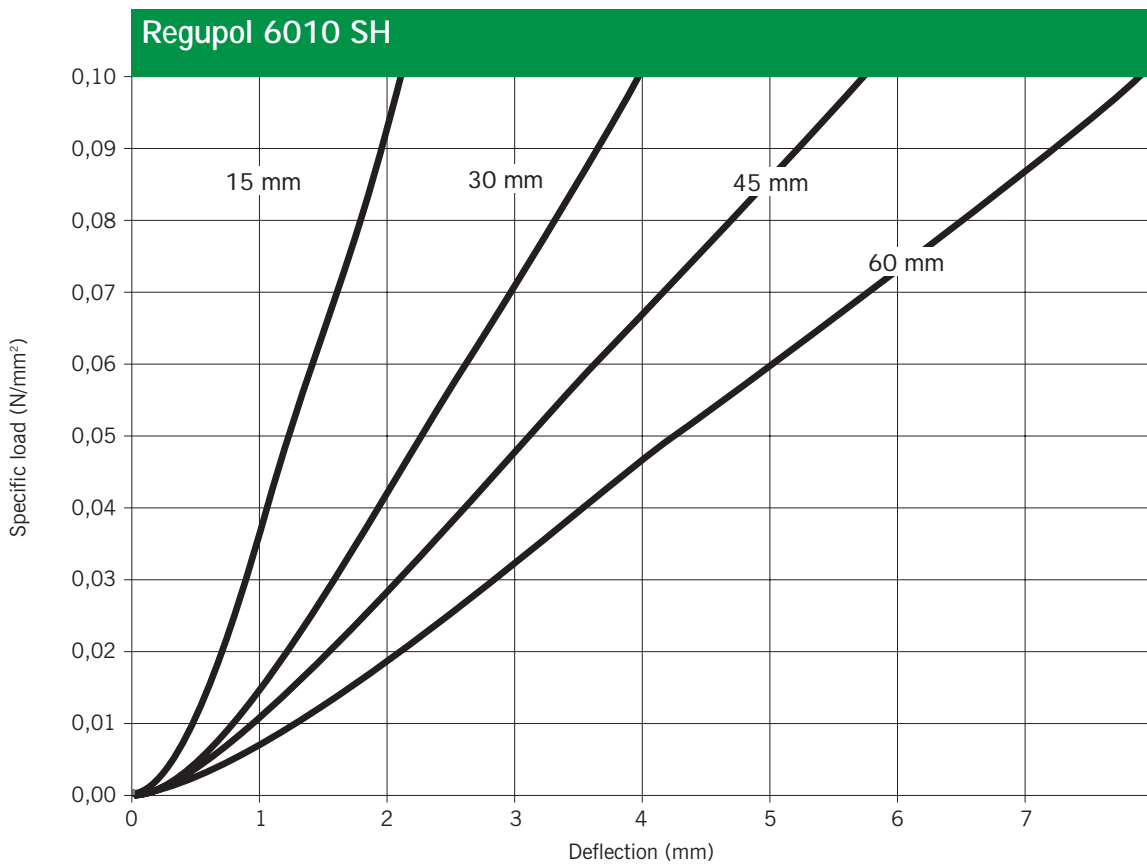
0.05 N/mm²

Static Modulus of Elasticity	Similar to EN 826	0.10-0.44	N/mm ²	Tantgenial modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	0.15- 1.10	N/mm ²	Depending on load and frequency, see fig. 4
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
Inflammability	DIN 4102	B 2	-	Normal inflammable

Load Ranges

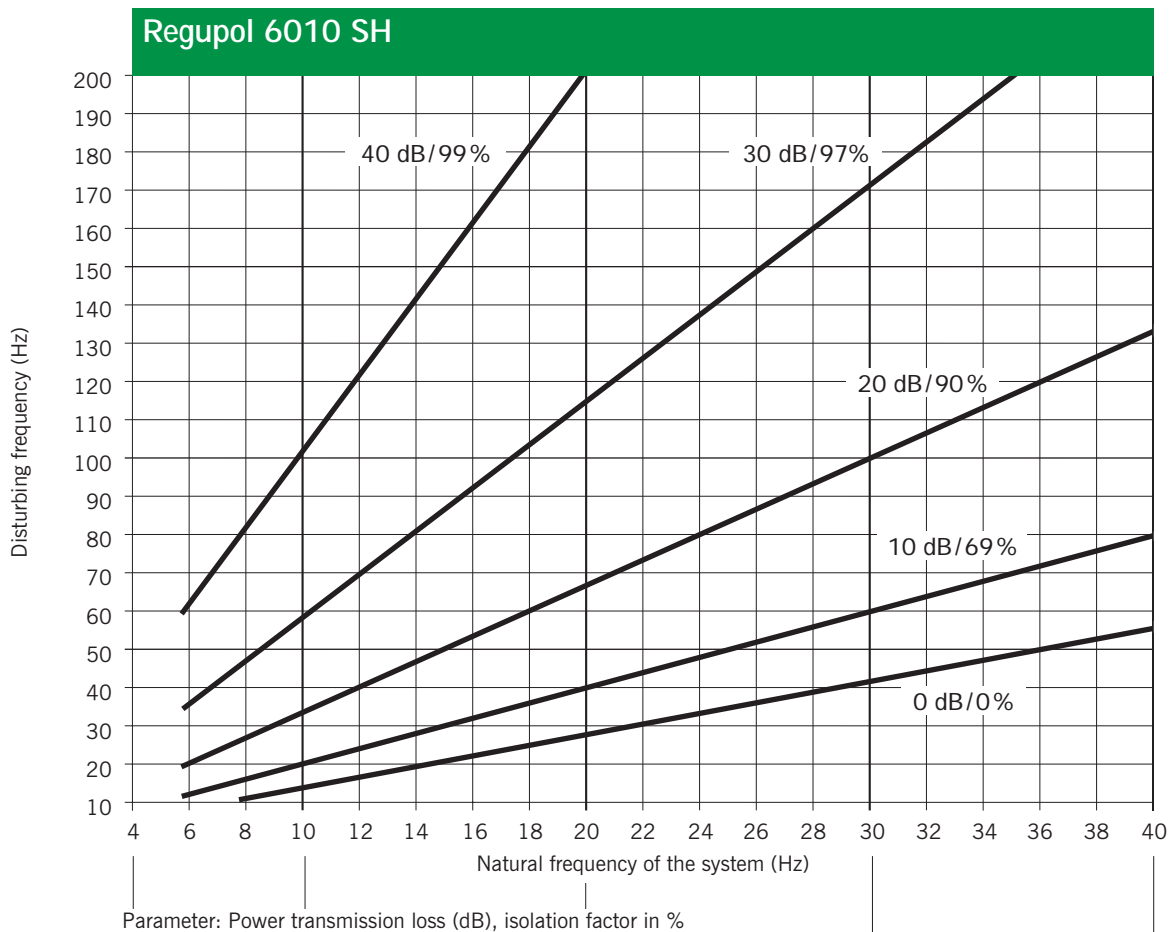


1 Load Deflection

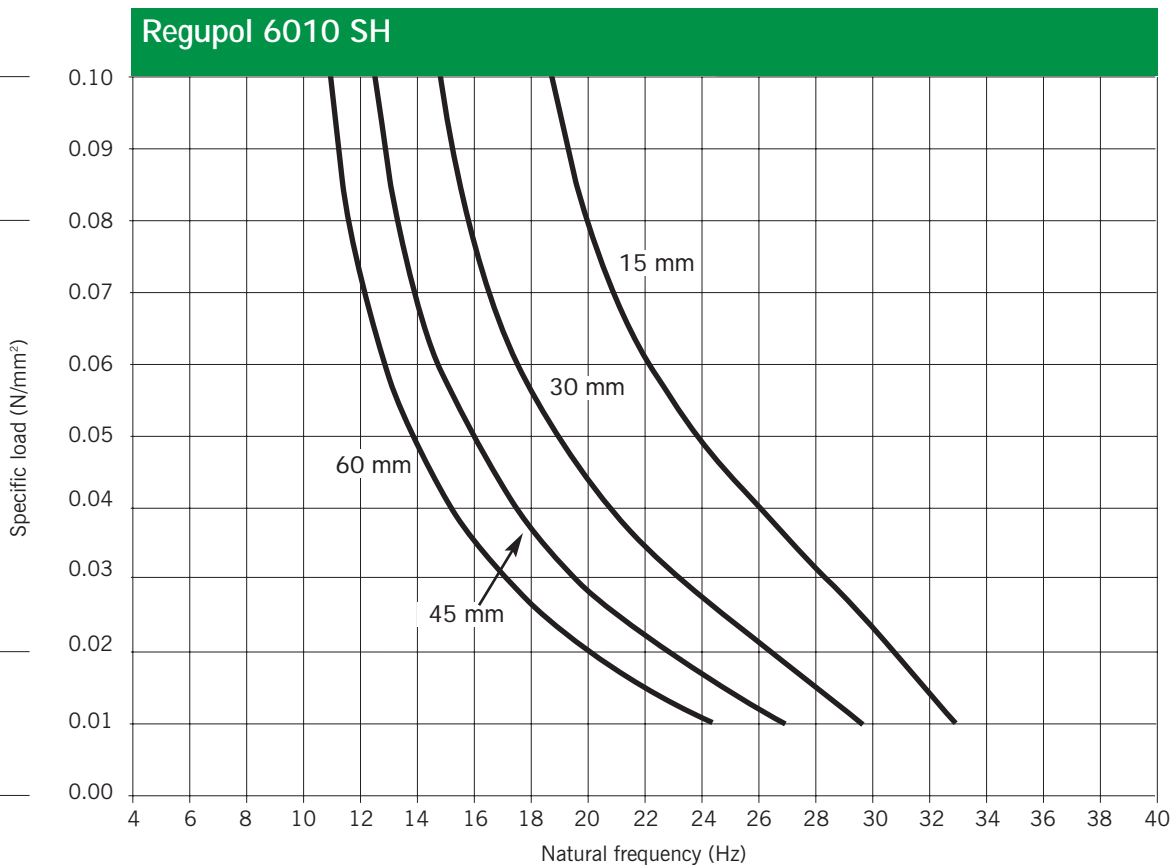


Samples: 300 mm x 300 mm

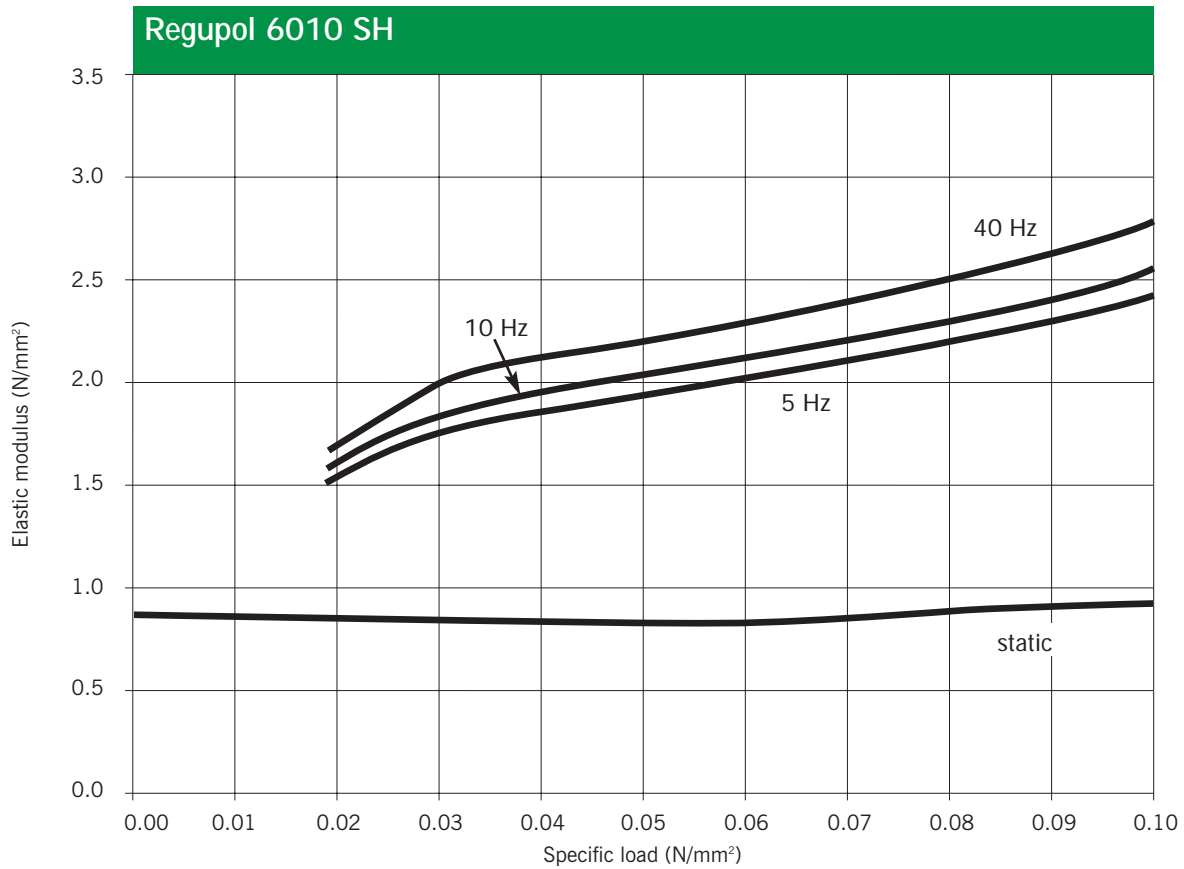
2 Vibration Insulation



3 Natural Frequency

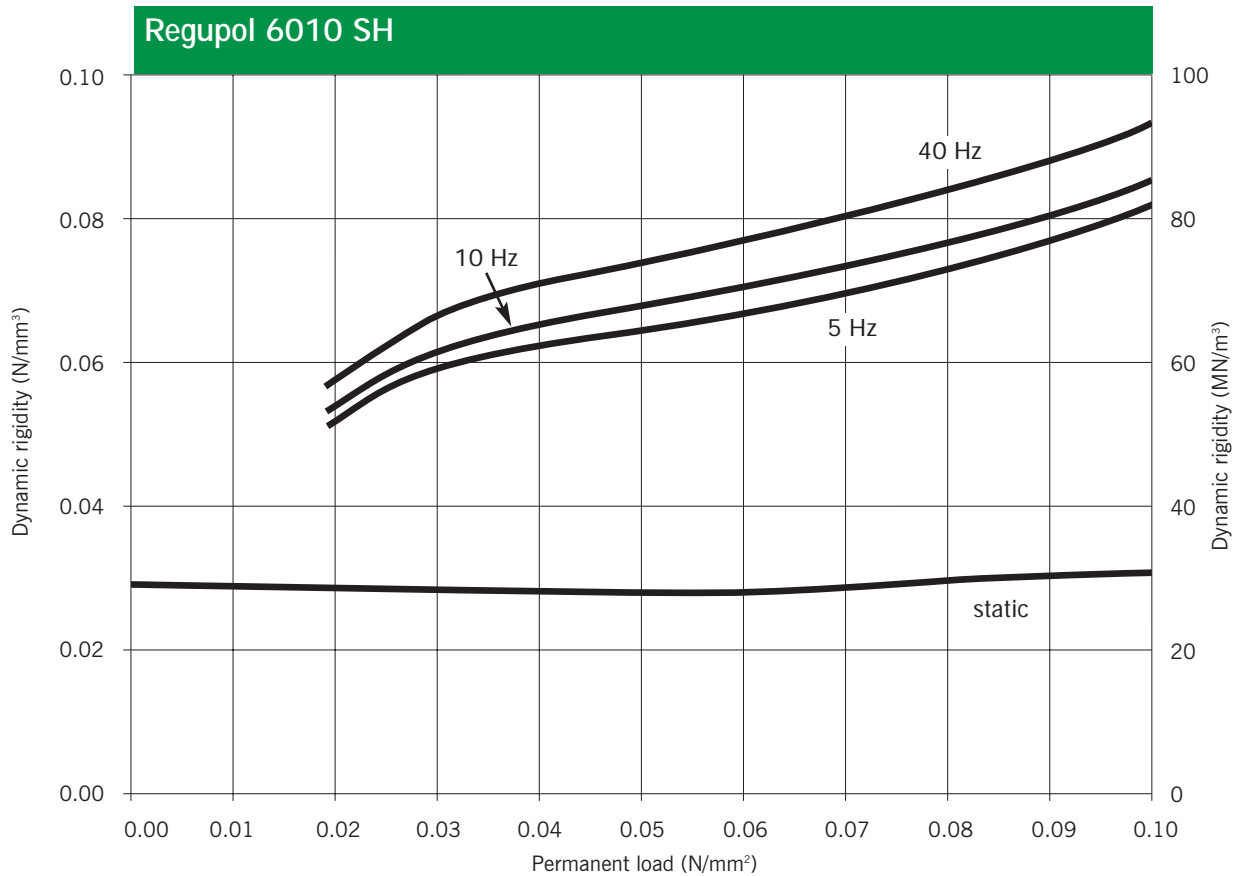


4 Modulus of Elasticity



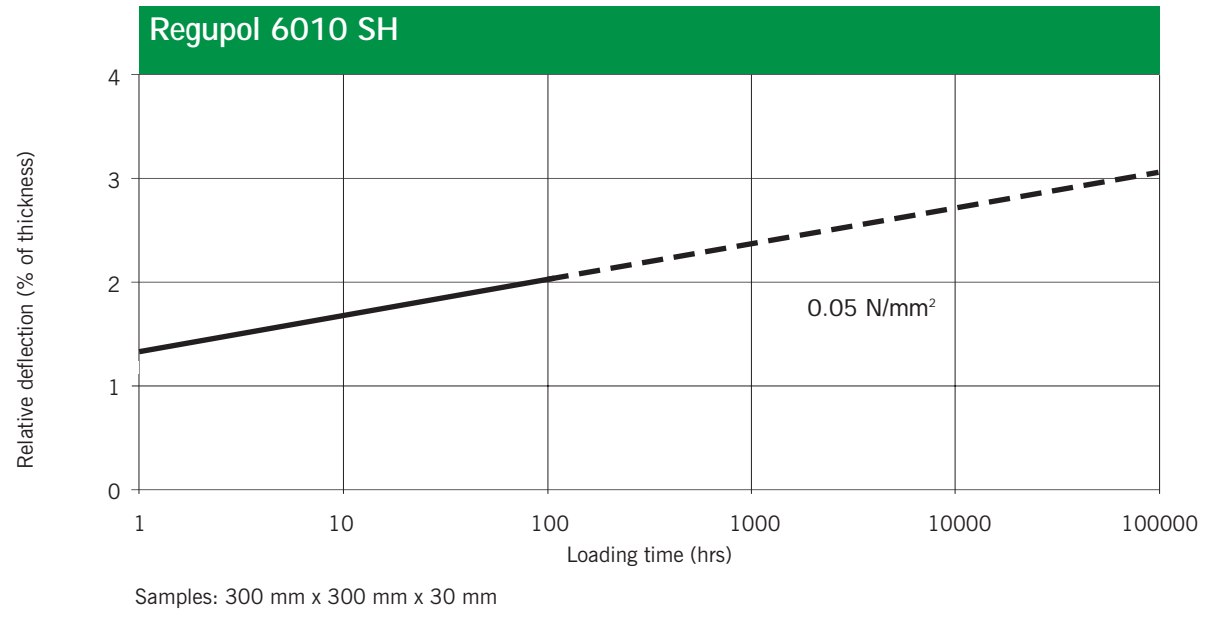
Samples: 300 mm x 300 mm x 30 mm

5 Dynamic Rigidity



Samples: 300 mm x 300 mm x 30 mm

6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 15 mm

Width: 1,250 mm

Rolls:

Length: 10,000 mm

Stripping/plates:

On request

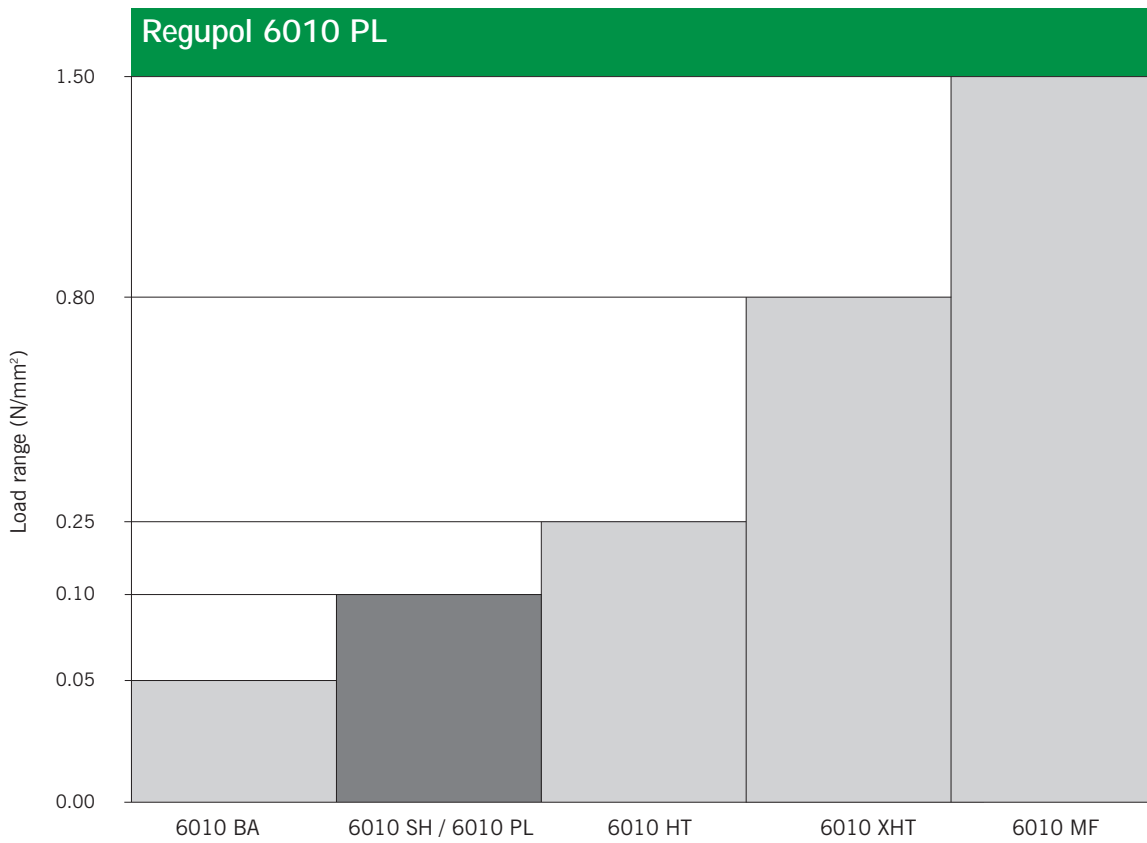
Permanent static load range:

0.1 N/mm²

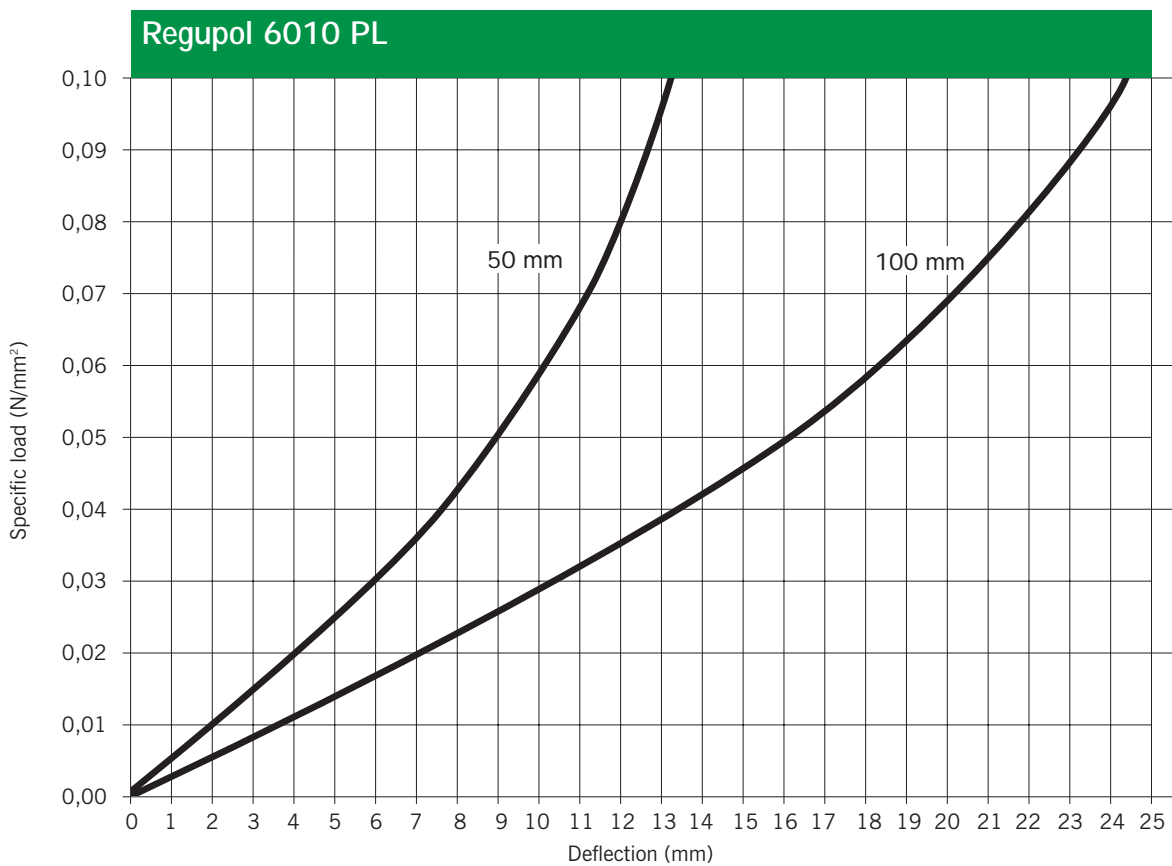
Static Modulus of Elasticity	Similar to DIN 53513	0.8 -0.90	N/mm ²	Tangential modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	0.6 -2.20	N/mm ²	Depending on load and frequency, see fig. 4
Mechanical Loss Factor	DIN 53513	-	-	
Compression Set	DIN 53572	approx. 4.0	%	measured 30 minutes 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
Inflammability	DIN 4102	B 2	-	Normal inflammable

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

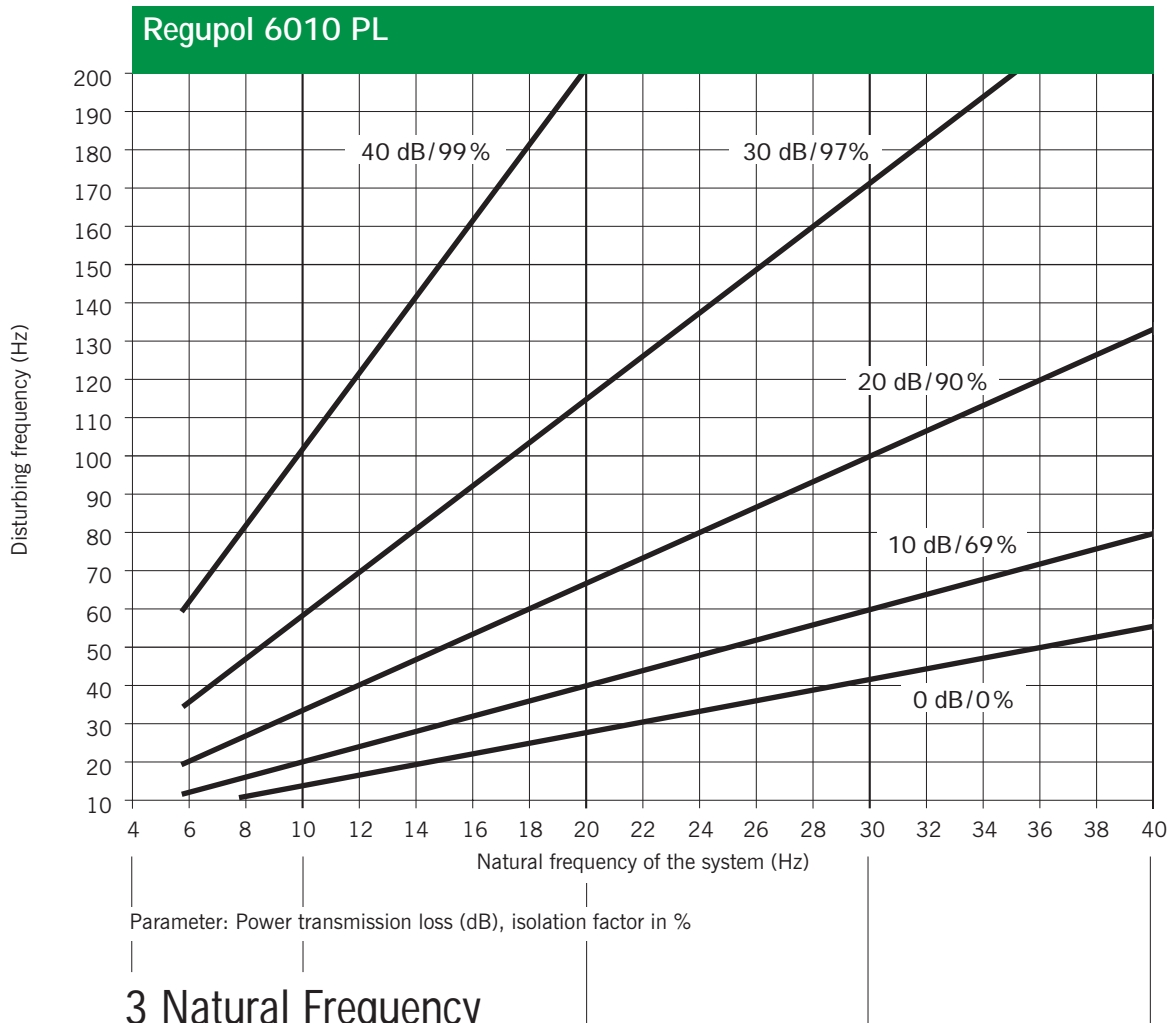


1 Load Deflection

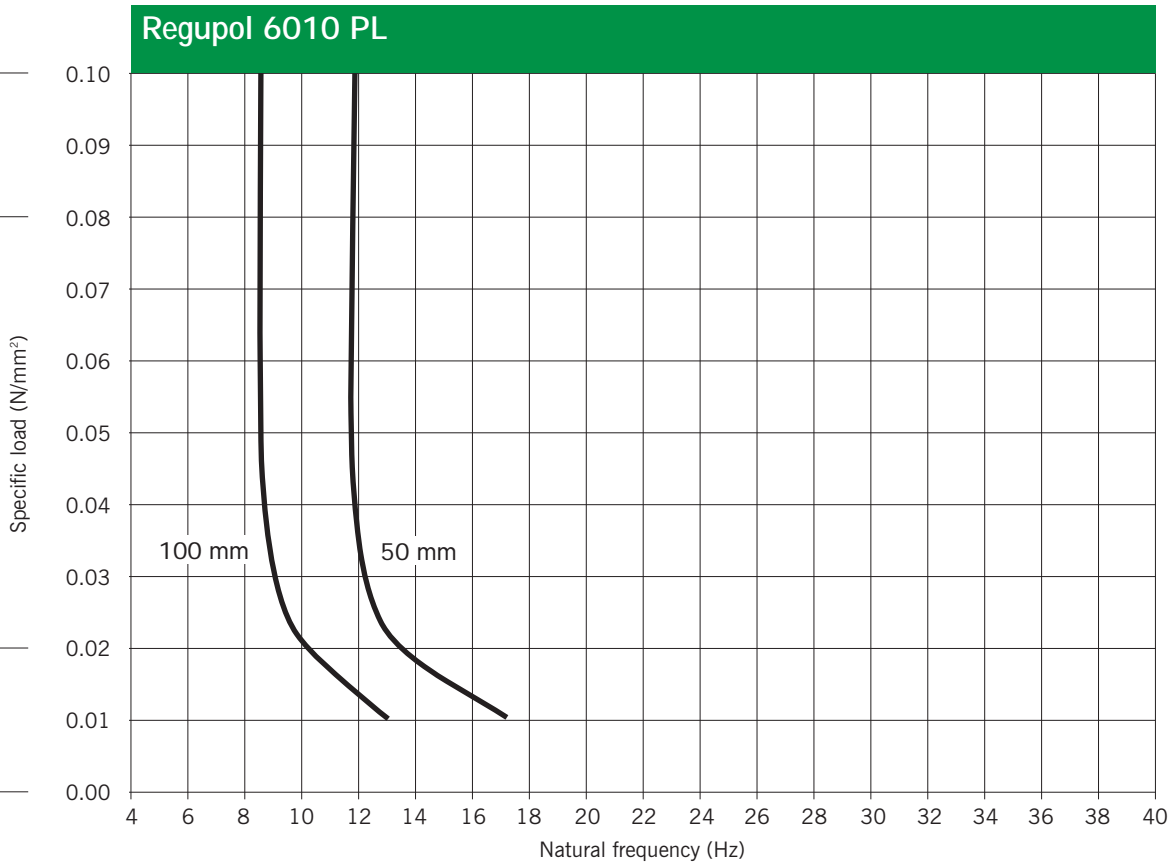


Samples: 300 mm x 300 mm

2 Vibration Insulation

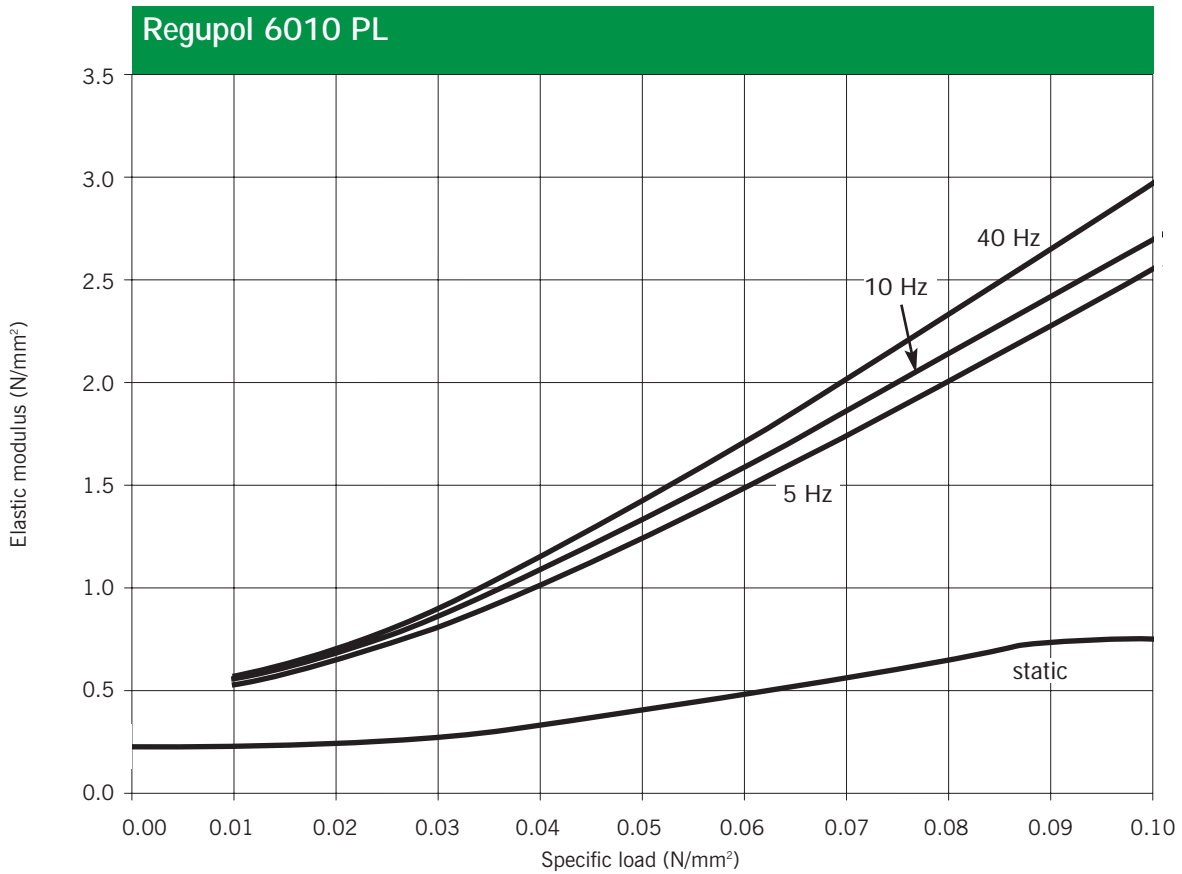


3 Natural Frequency

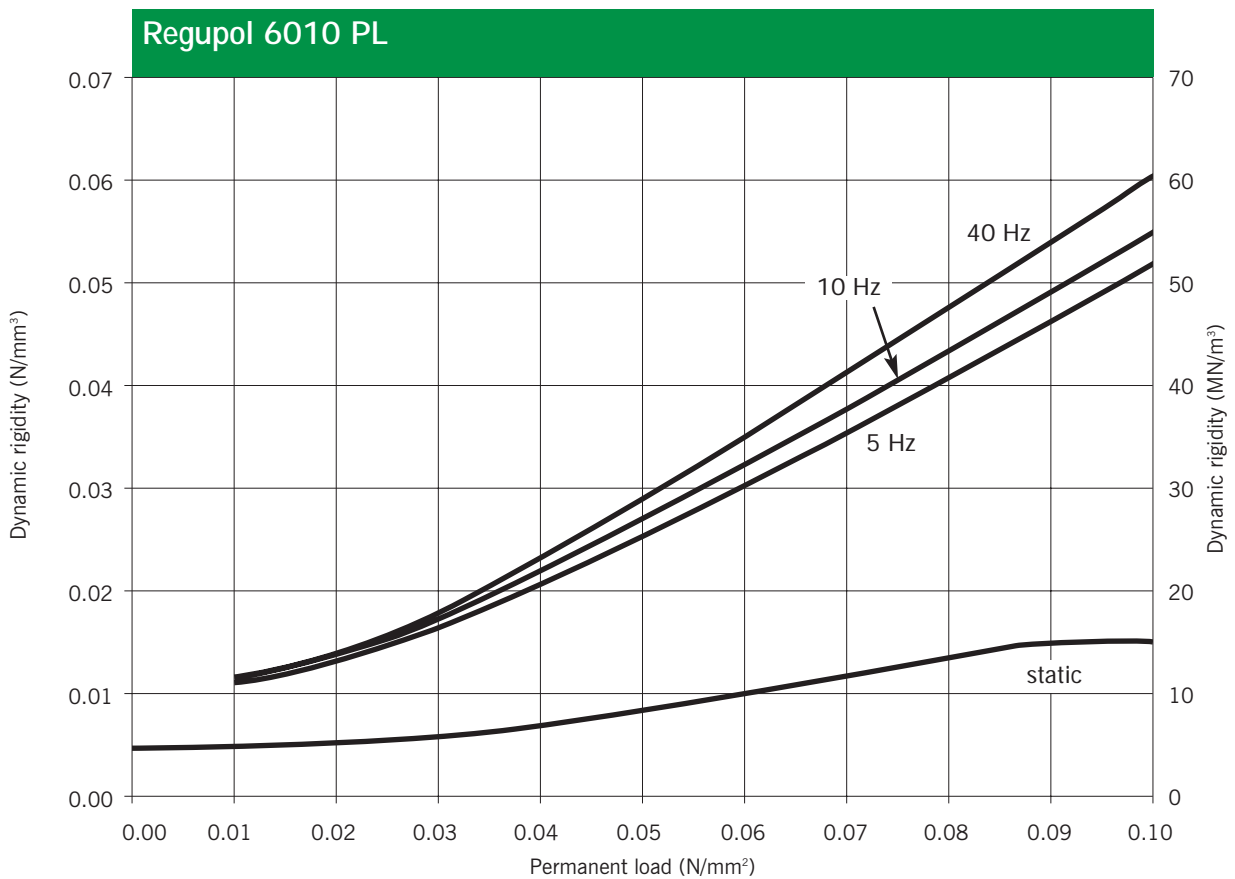


Samples: 300 mm x 300 mm

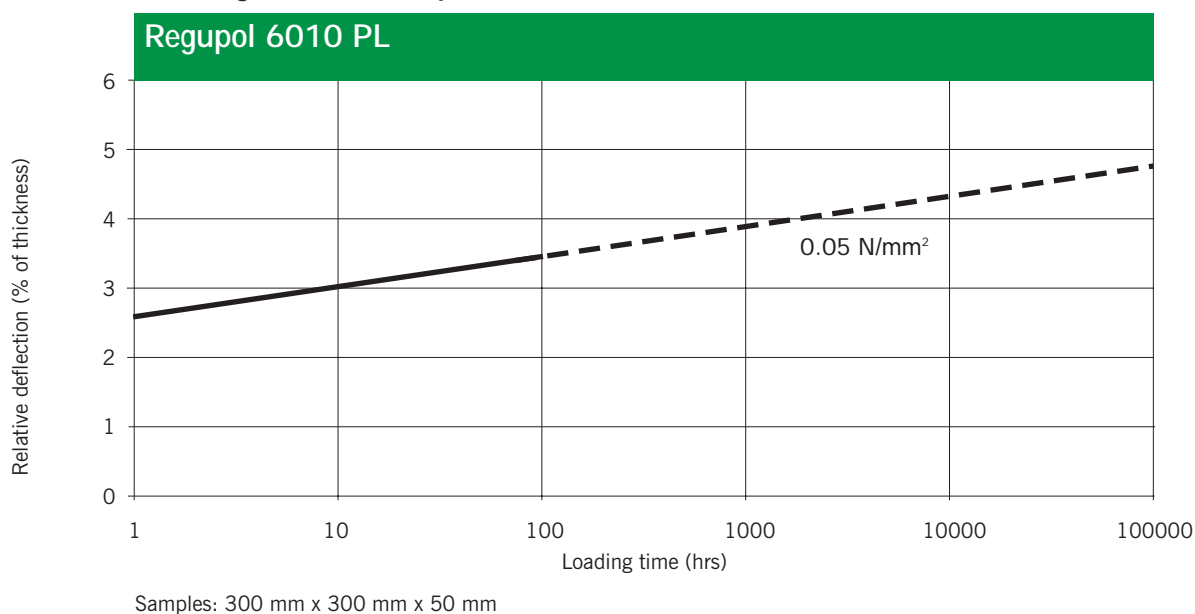
4 Modulus of Elasticity



5 Dynamic Rigidity



6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 50 mm

Width: 500 mm

Rolls:

Length: 1,000 mm

Stripping:

On request

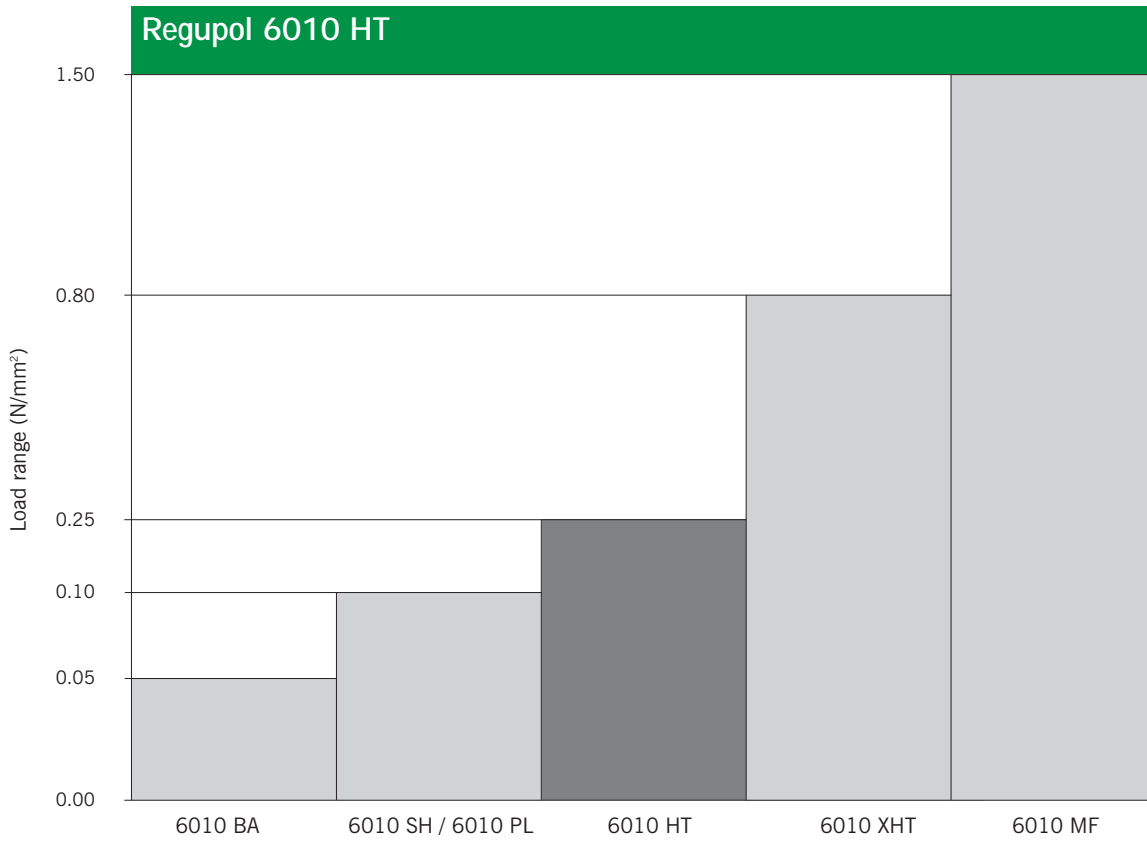
Permanent static load range:

0.1 N/mm²

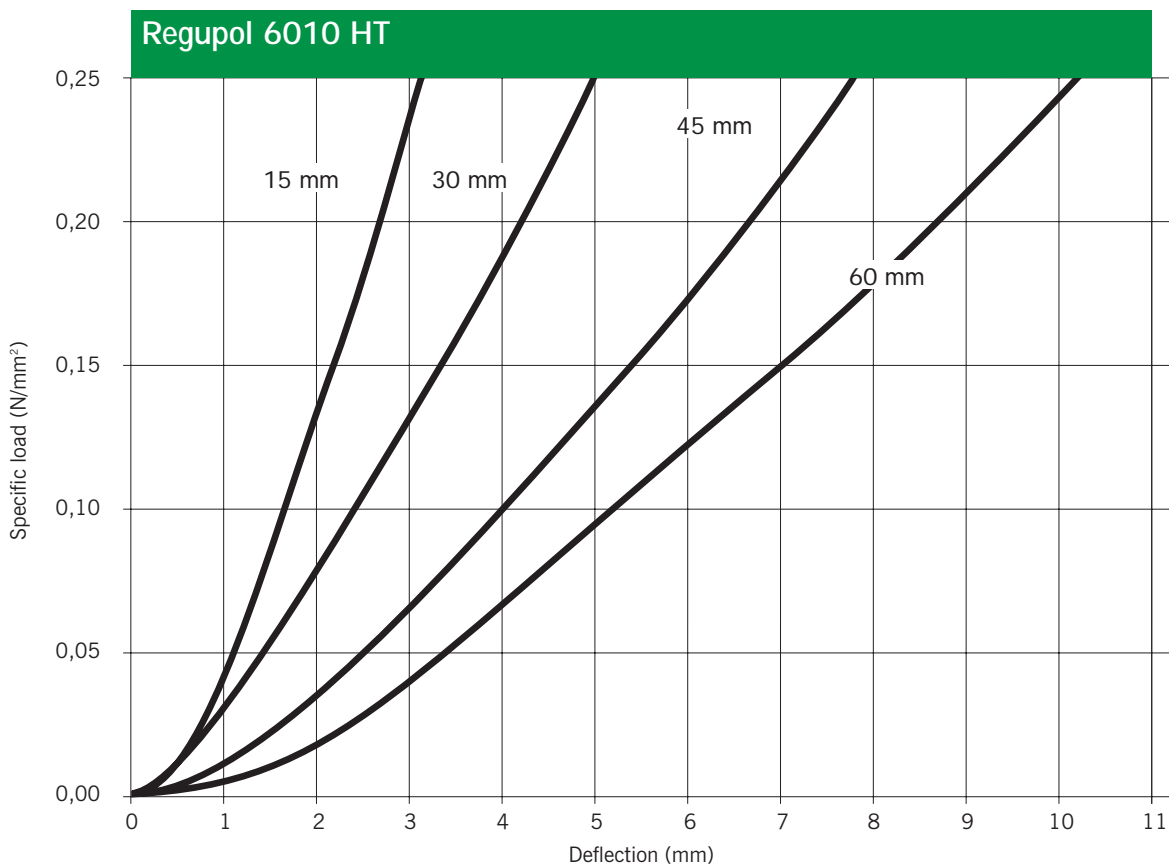
Static Modulus of Elasticity	Similar to DIN 53513	0.25-0.75	N/mm ²	Tangential modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	0.60-2.90	N/mm ²	Depending on load and frequency, see fig. 4
Compression Set	DIN 53572	approx. 5.40	%	measured 30 minutes after decompression with 50% deformation/23 °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)
Inflammability	DIN 4102	B 2	-	Normal inflammable

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

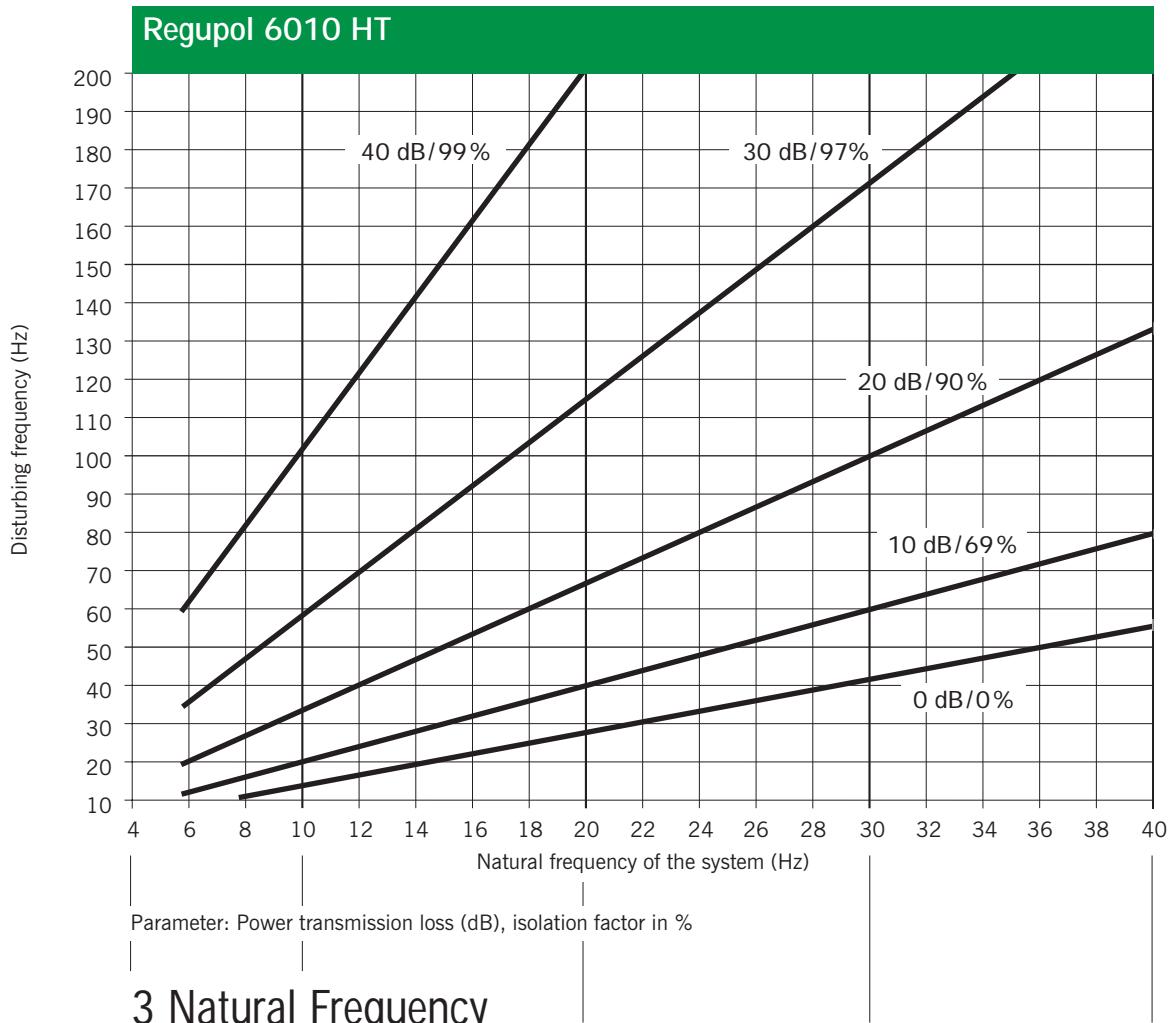


1 Load Deflection

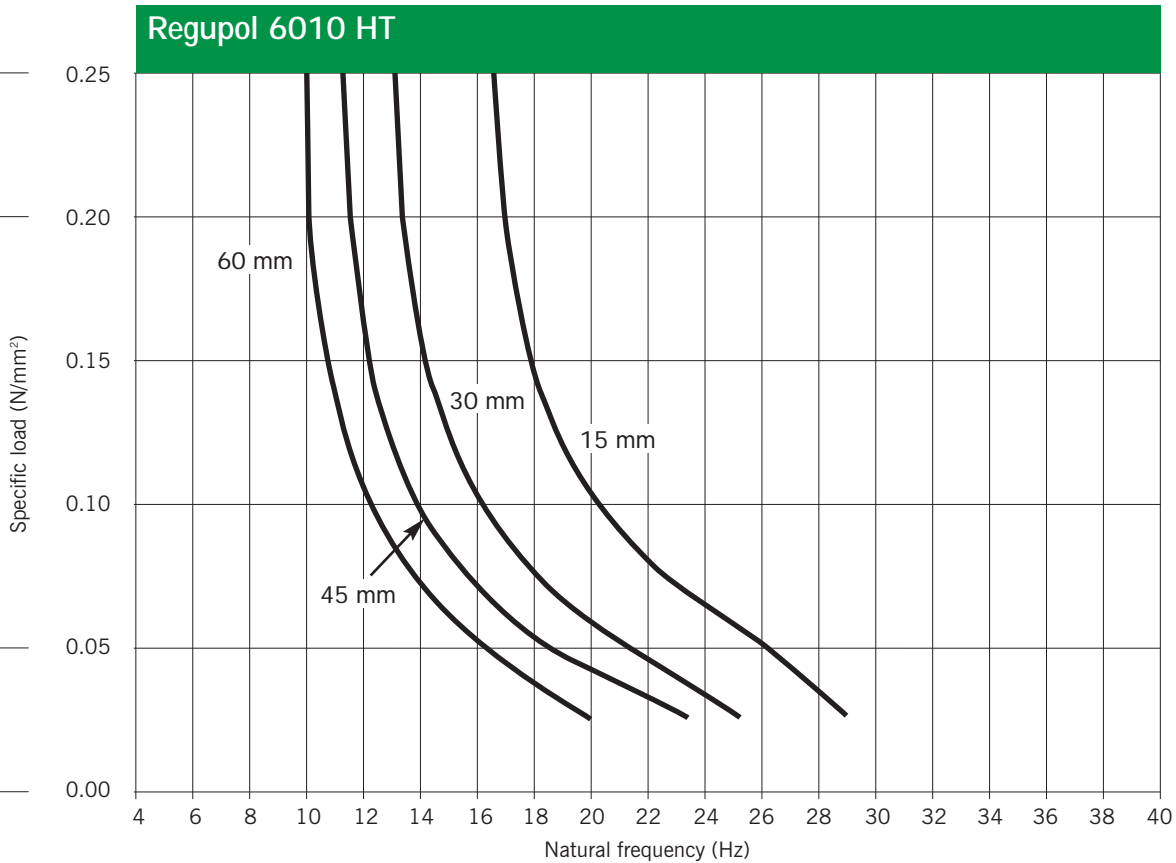


Samples: 300 mm x 300 mm

2 Vibration Insulation

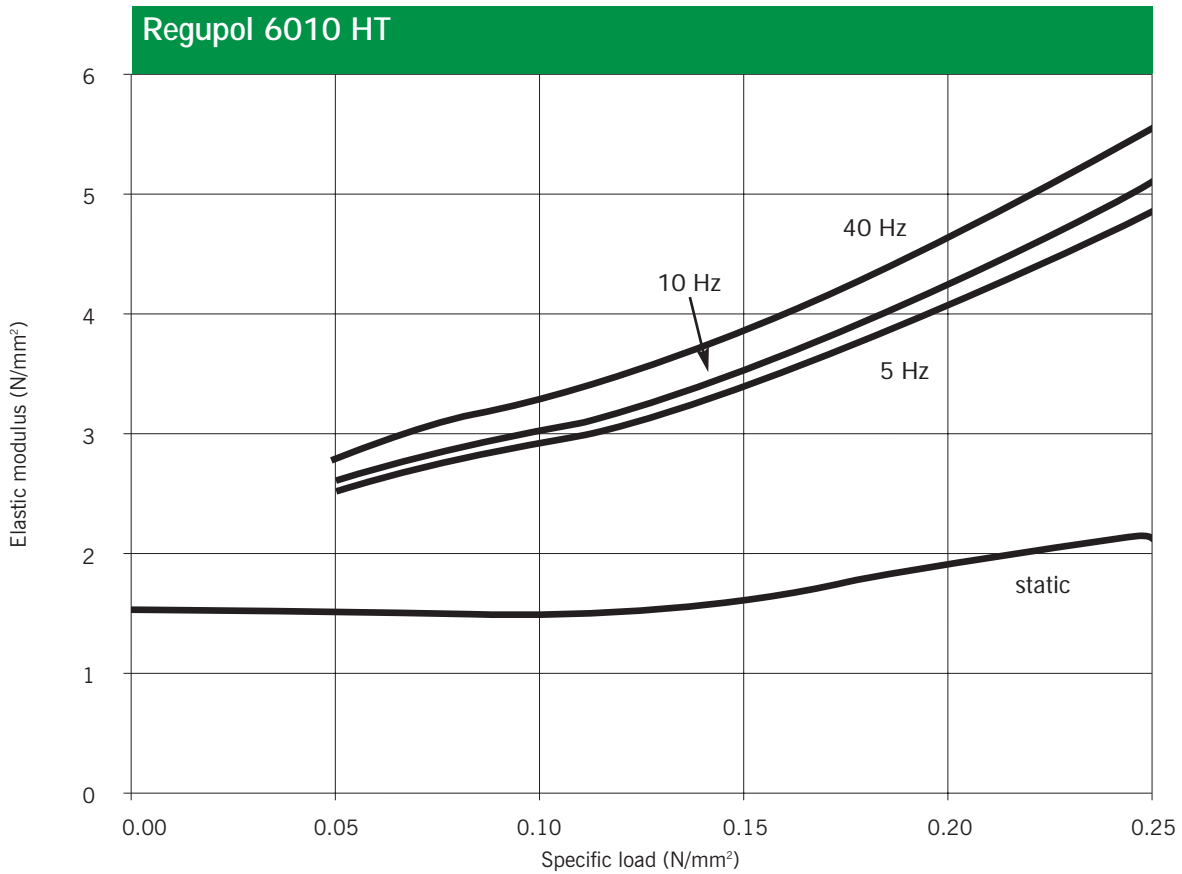


3 Natural Frequency

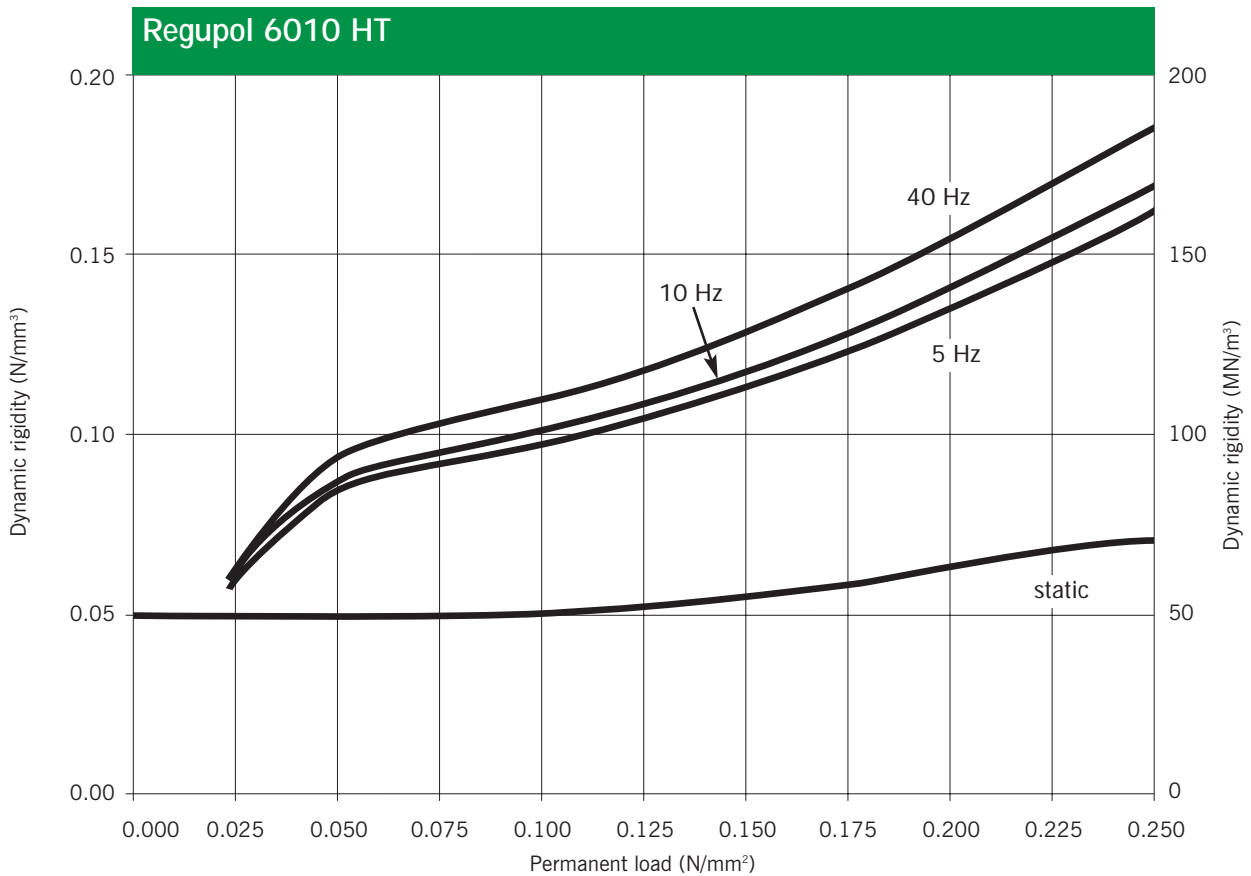


Samples: 300 mm x 300 mm

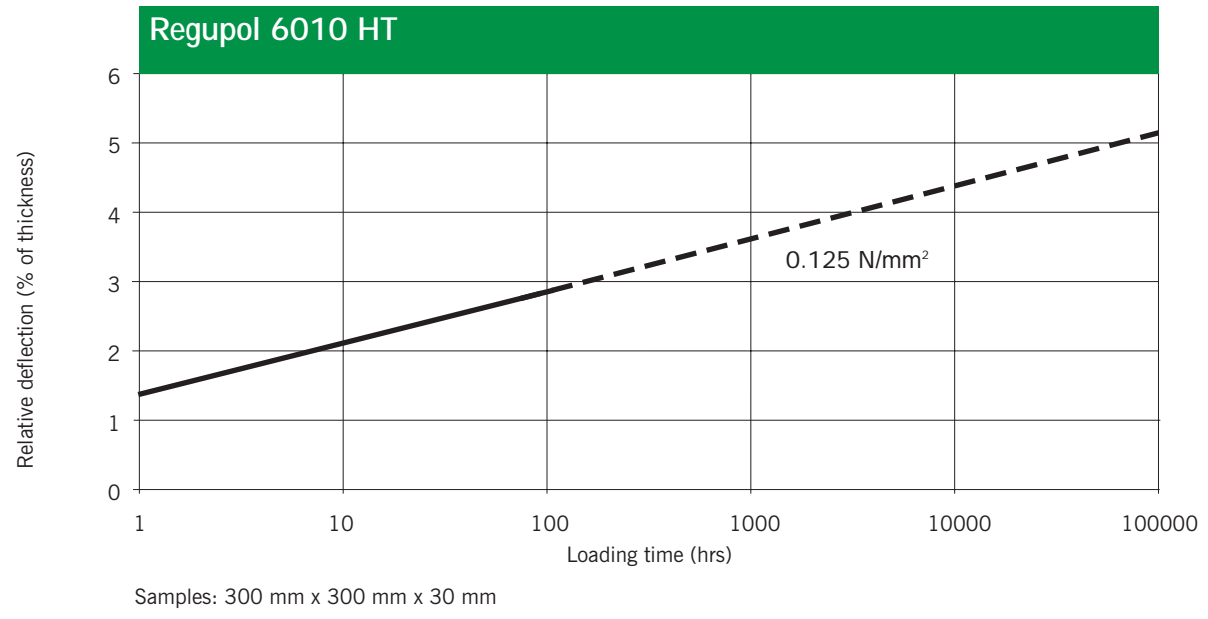
4 Modulus of Elasticity



5 Dynamic Rigidity



6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 15 mm

Width: 1,250 mm

Rolls:

Length: 10,000 mm

Stripping/plates:

On request

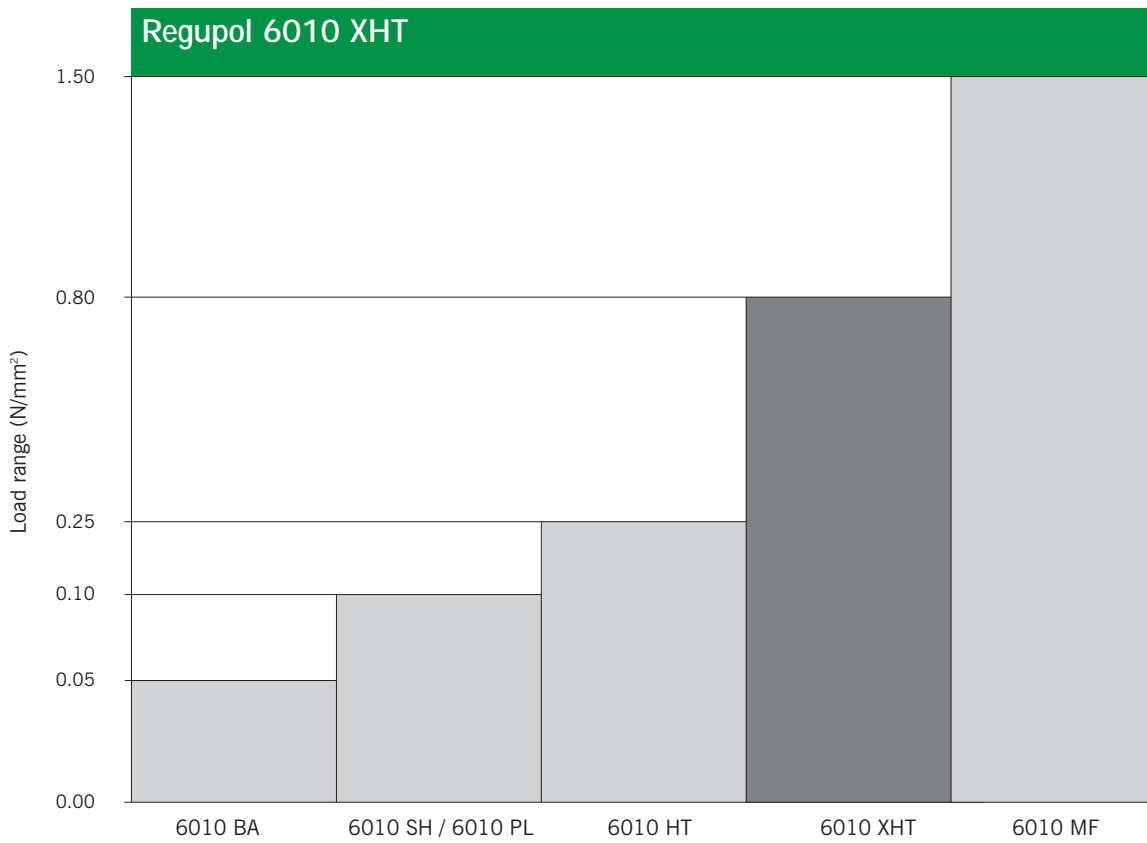
Permanent static load range:

0.25 N/mm²

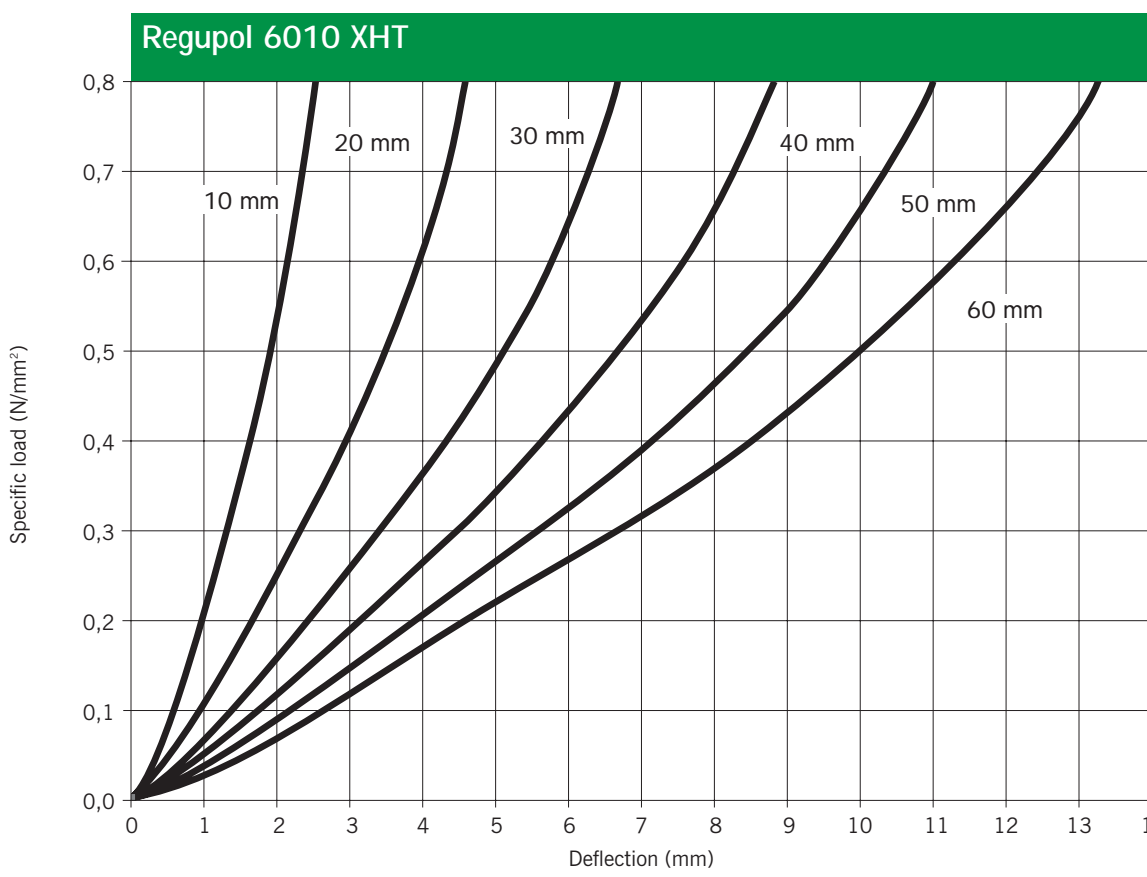
Static Modulus of Elasticity	Similar to DIN 53513	1.20-1.90	N/mm ²	Tangential modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	1.10-4.40	N/mm ²	Depending on load and frequency, see fig. 4
Compression Set	DIN 53572	approx. 4.60	%	measured 30 minutes after decompression with 50% deformation/23 °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
Inflammability	DIN 4102	B 2	-	Normal inflammable

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Load Ranges

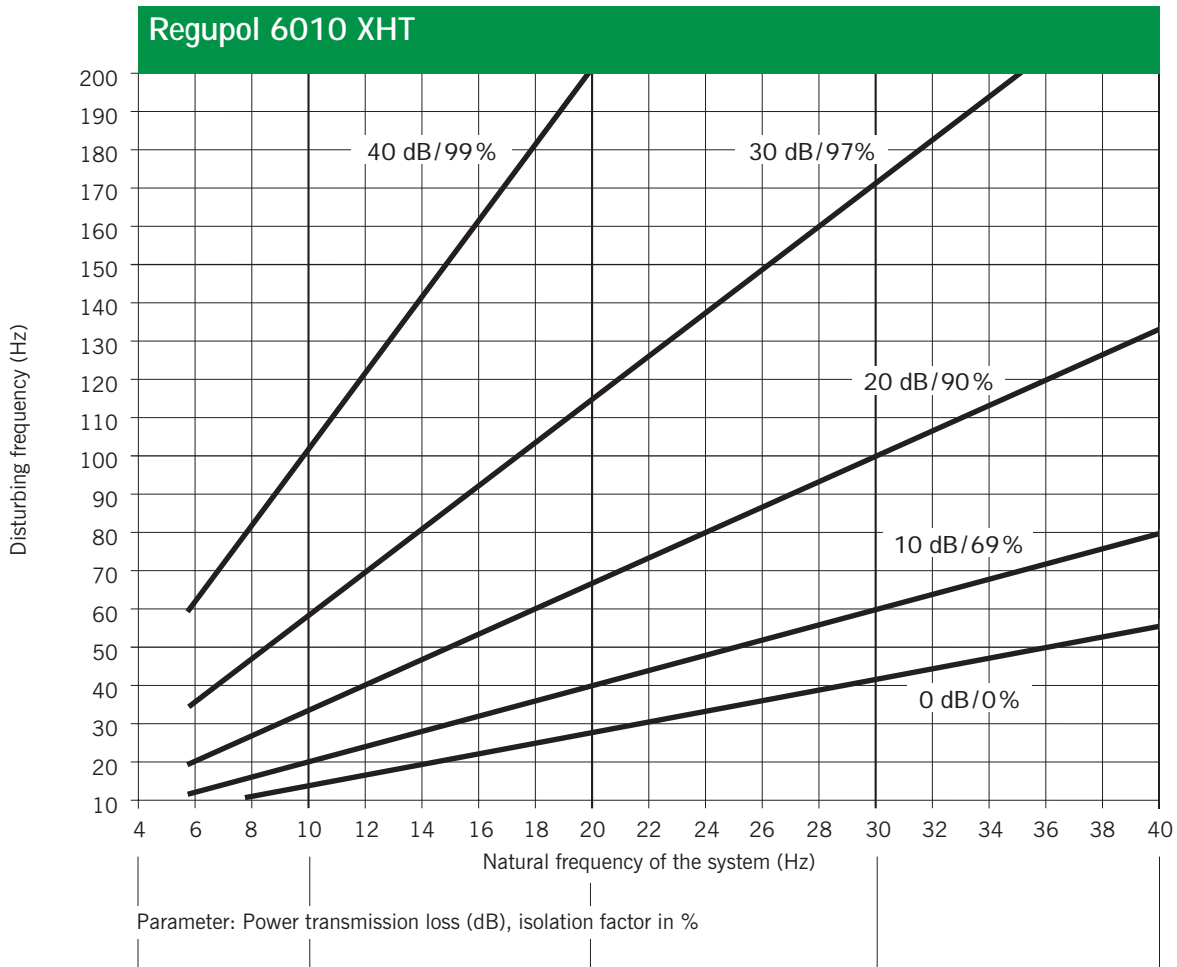


1 Load Deflection

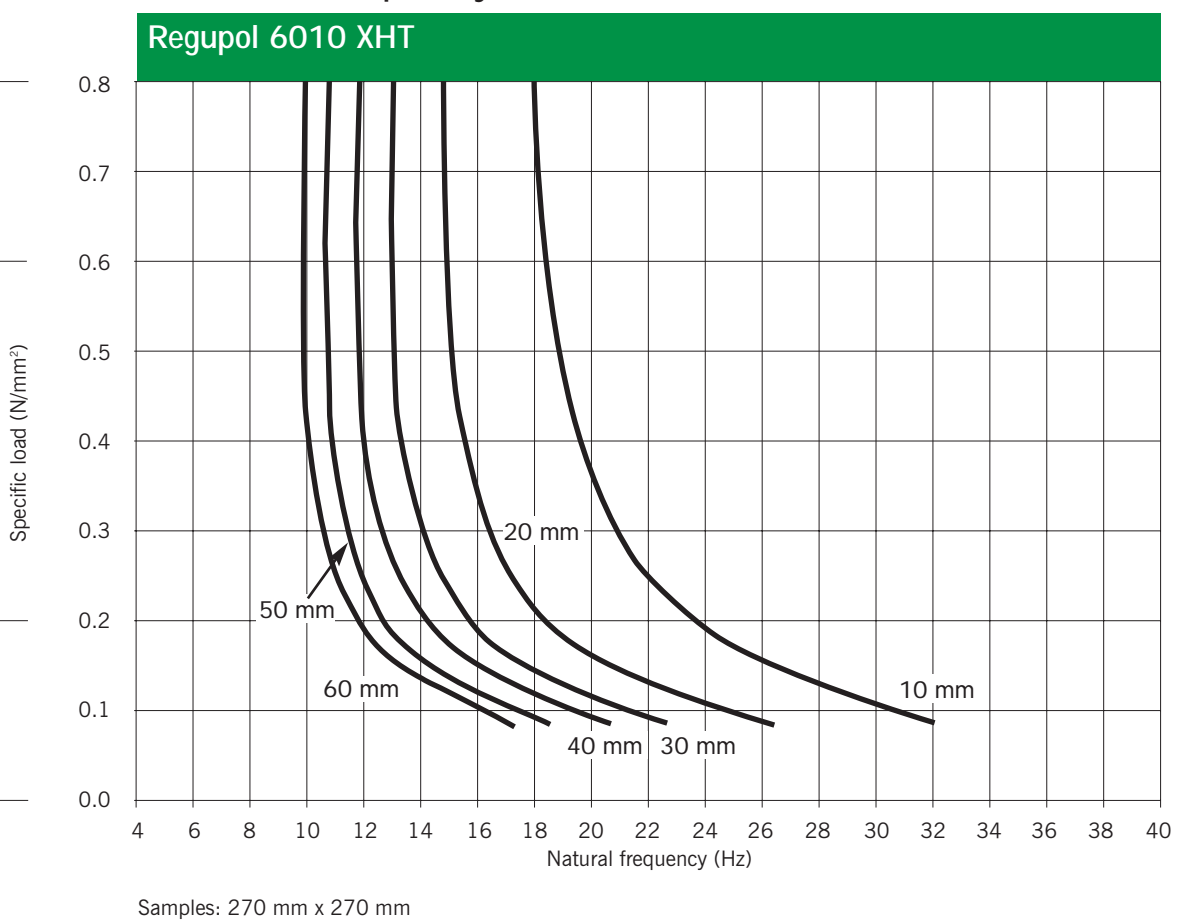


Samples: 270 mm x 270 mm

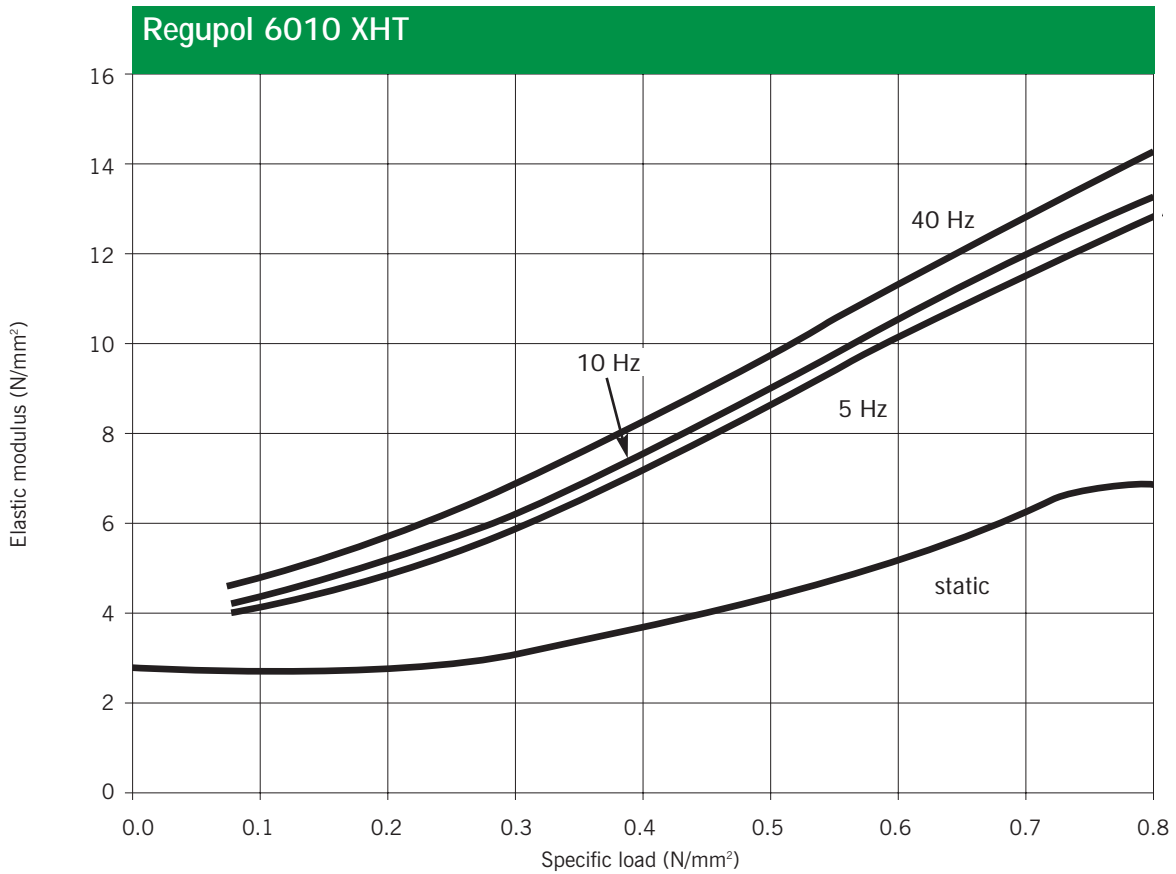
2 Vibration Insulation



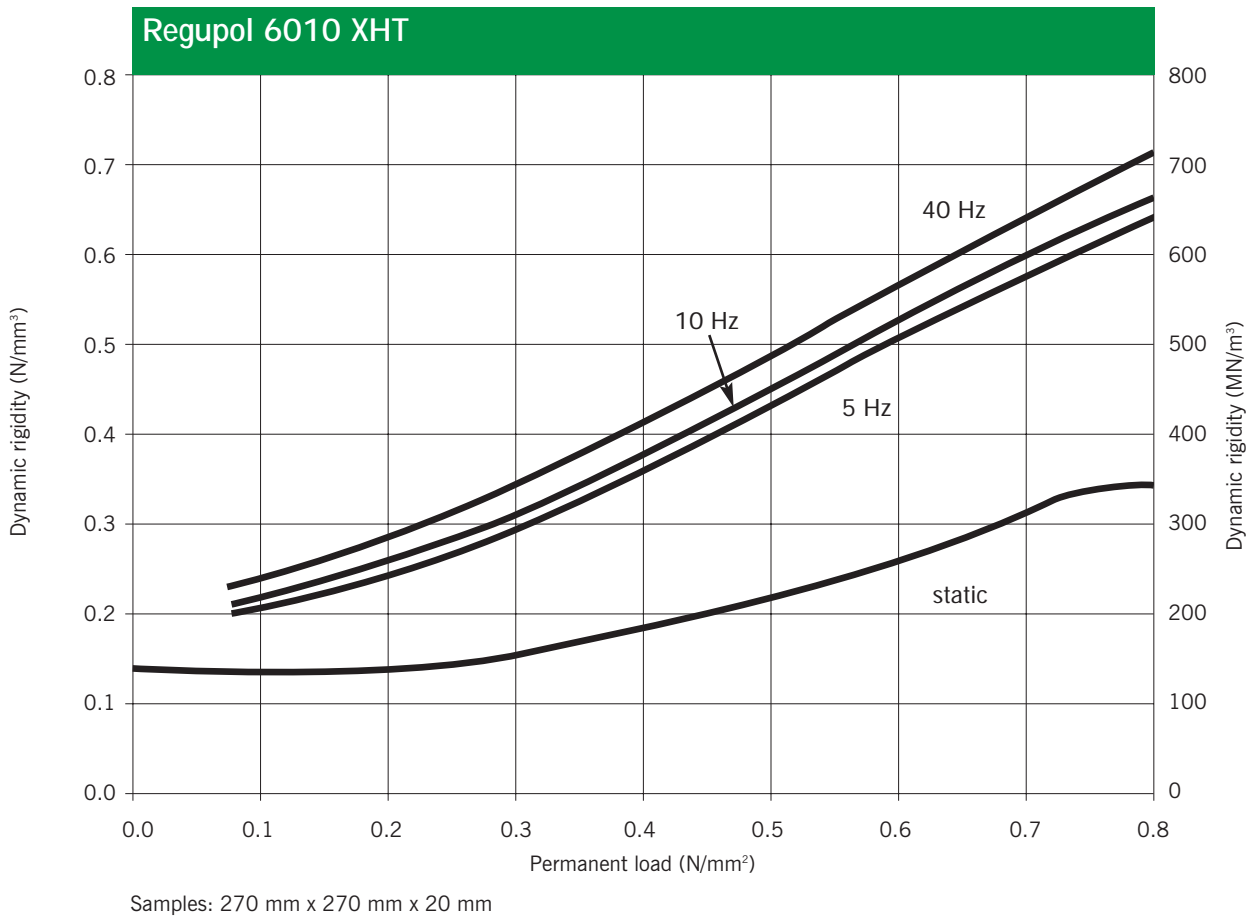
3 Natural Frequency



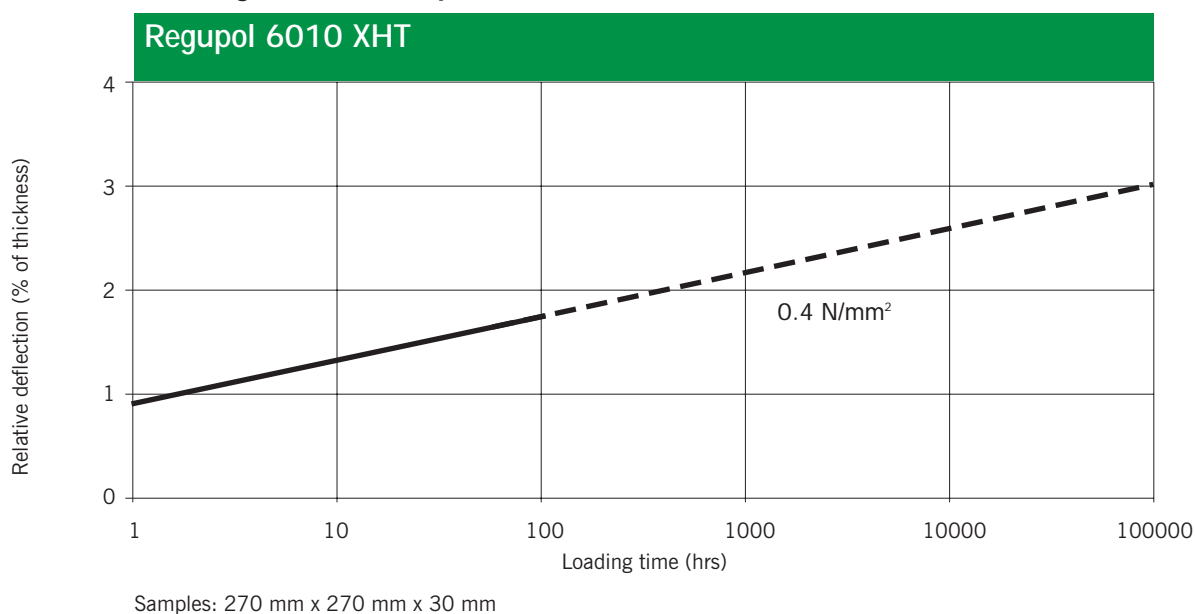
4 Modulus of Elasticity



5 Dynamic Rigidity



6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 10 mm

Width: 1,250 mm

Rolls:

Length: 8,000 mm

Stripping/plates:

On request

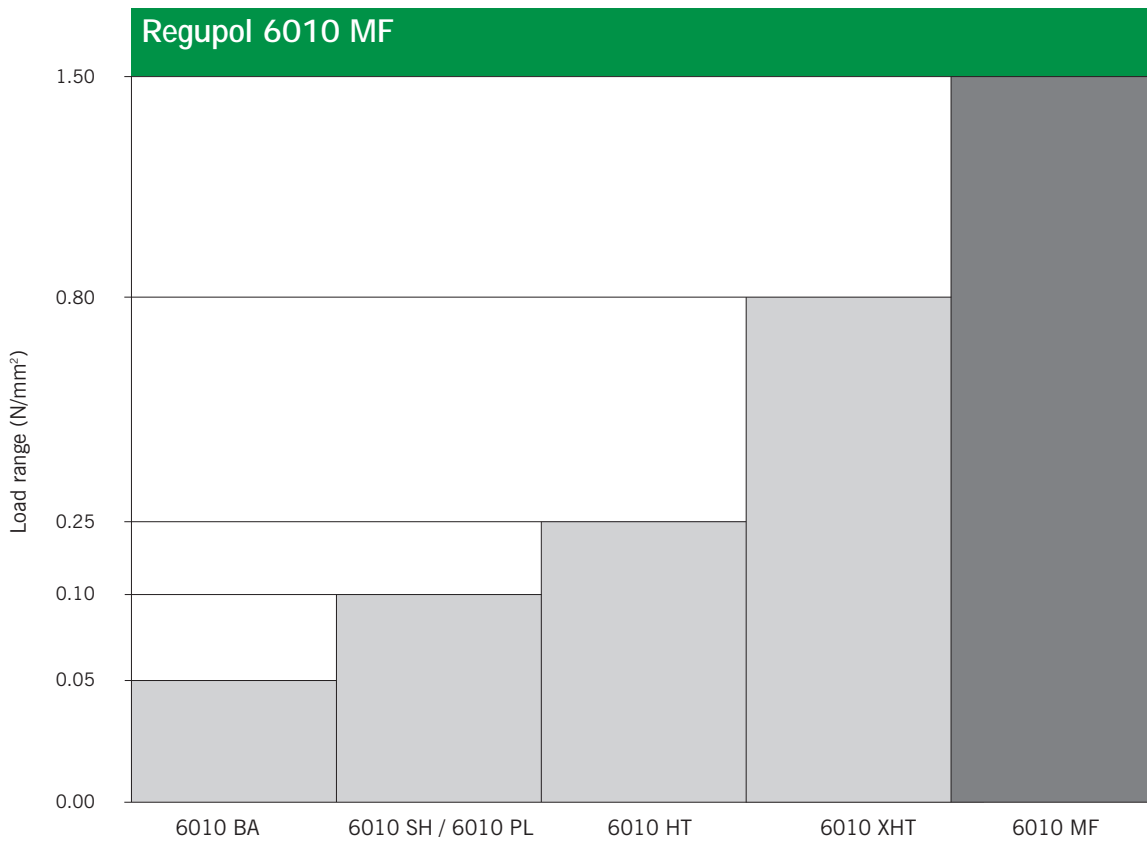
Permanent static load range:

0.8 N/mm²

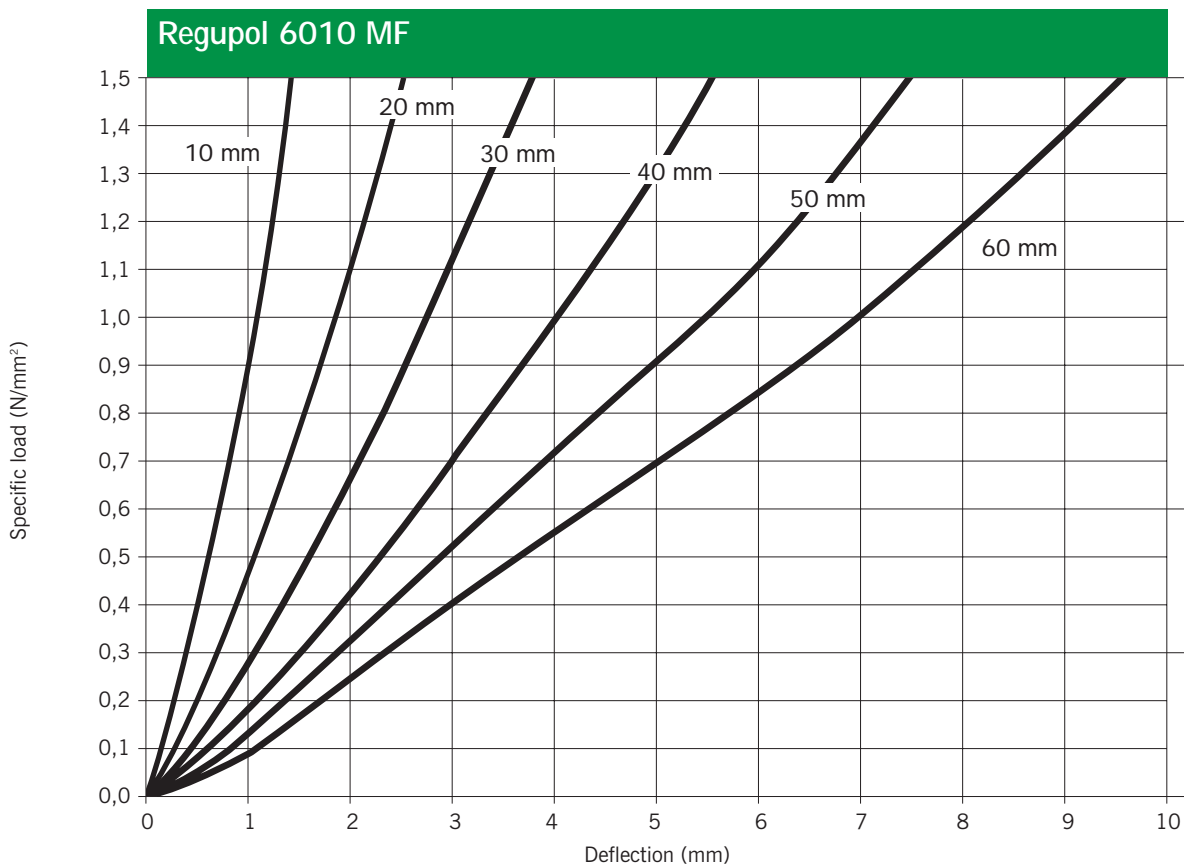
Static Modulus of Elasticity	Similar to EN 826	2.50-5.50	N/mm ²	Tangential modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	3.0-8.80	N/mm ²	Depending on load and frequency, see fig. 4
Mechanical Loss Factor	DIN 53513	-	-	
Compression Set	DIN 53572	approx. 5.90	%	measured 30 minutes 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
Inflammability	DIN 4102	B 2	-	Normal inflammable

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Load Ranges

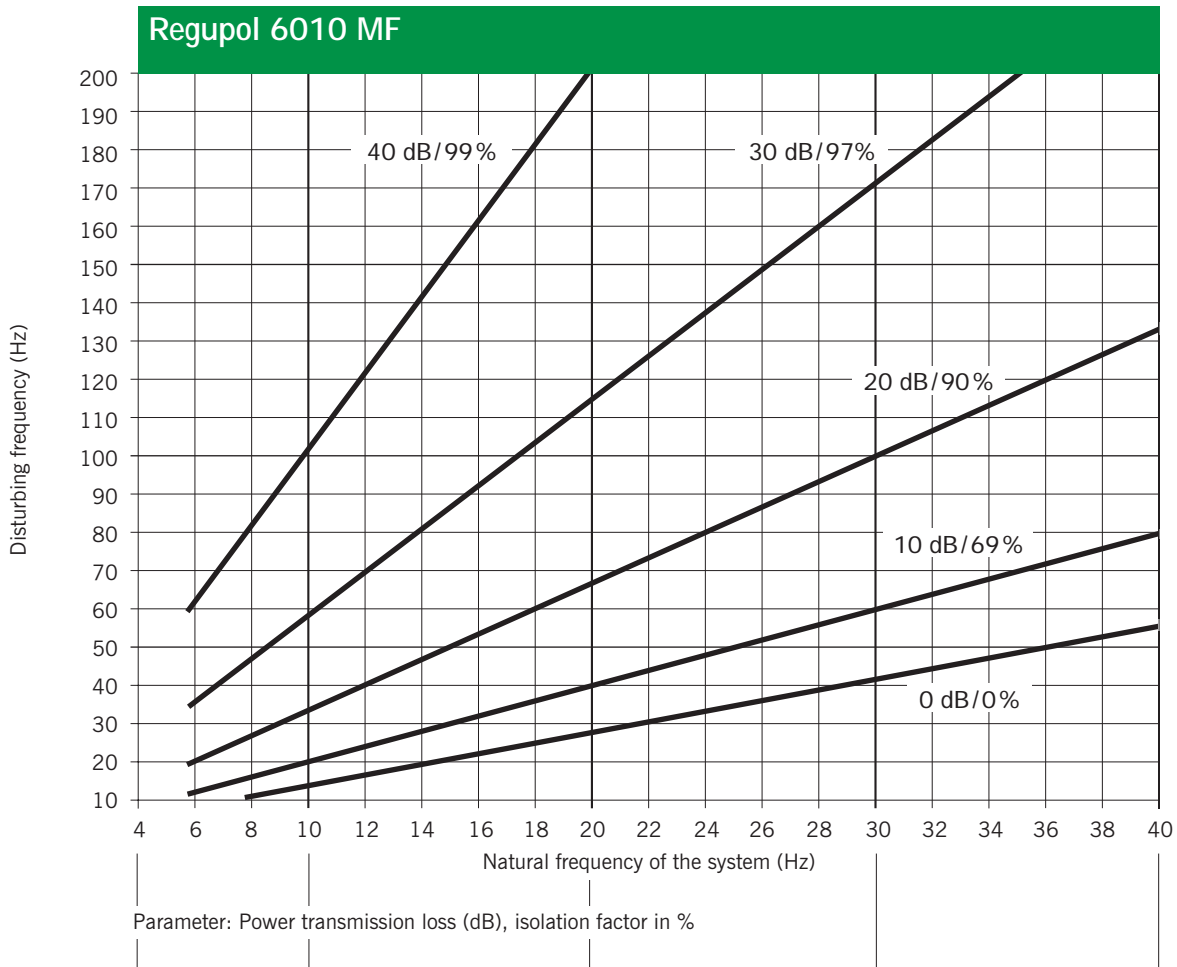


1 Load Deflection

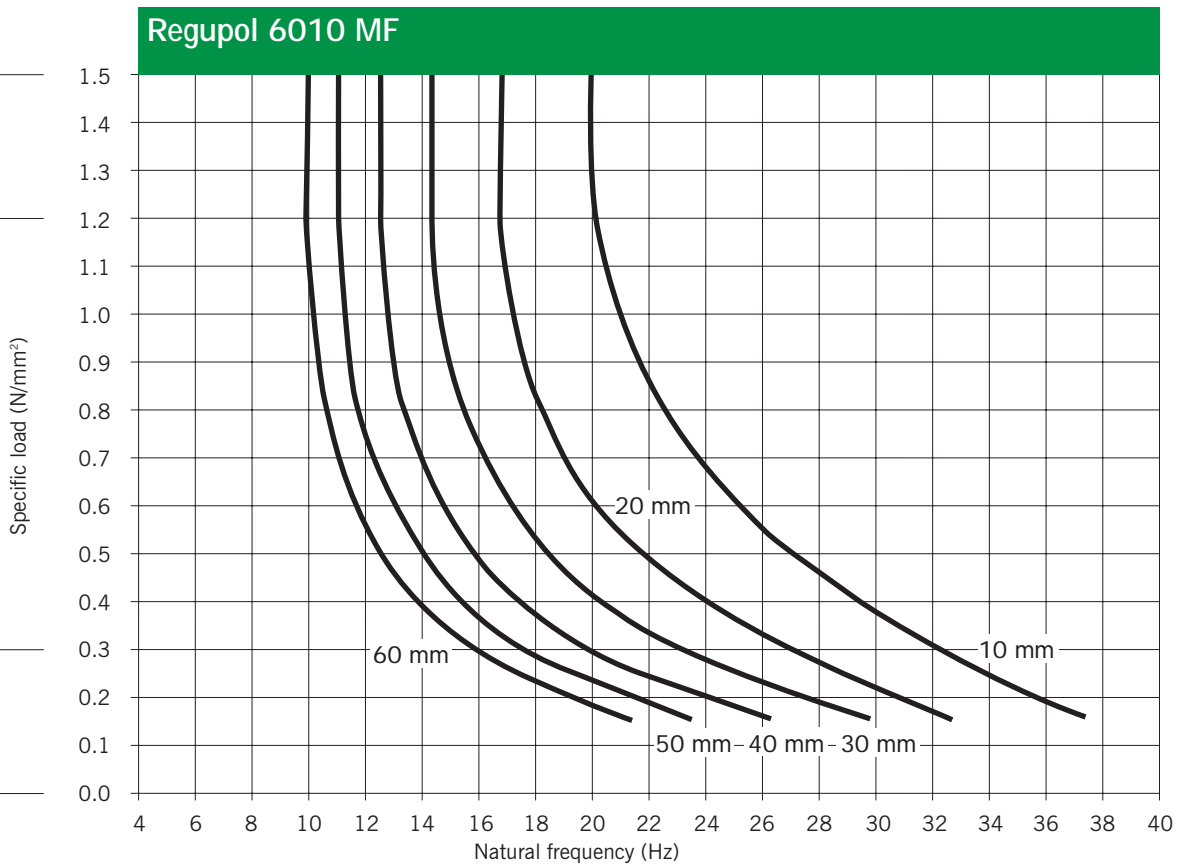


Samples: 200 mm x 200 mm

2 Vibration Insulation

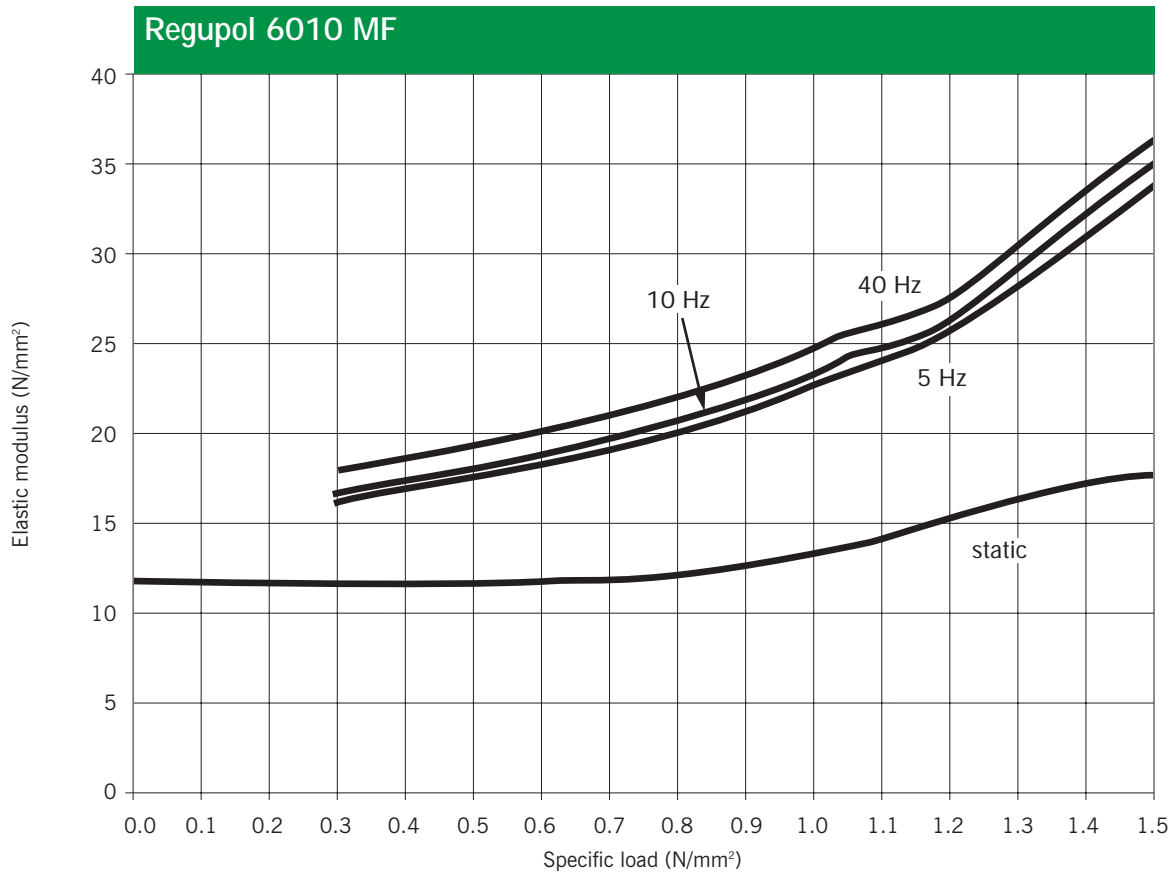


3 Natural Frequency

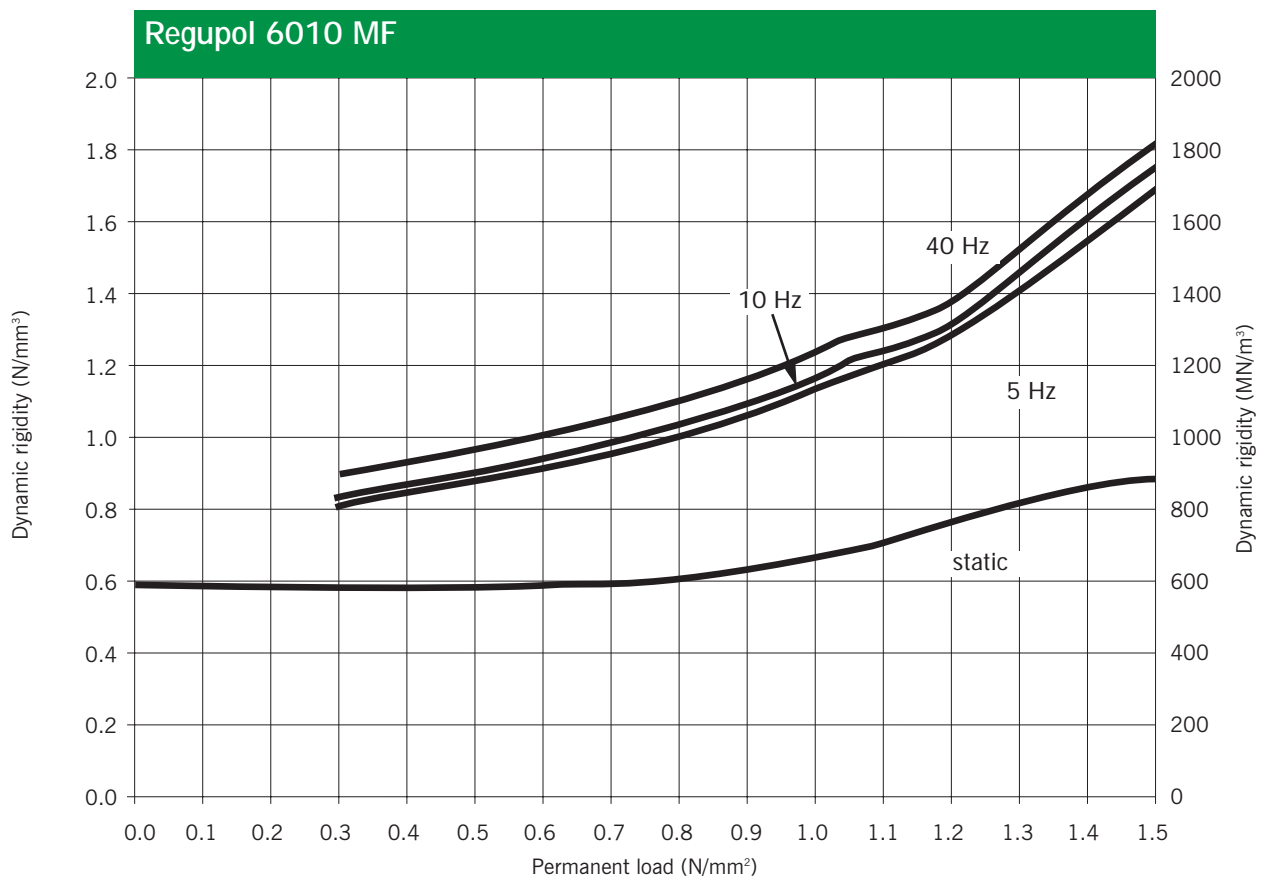


Samples: 200 mm x 200 mm

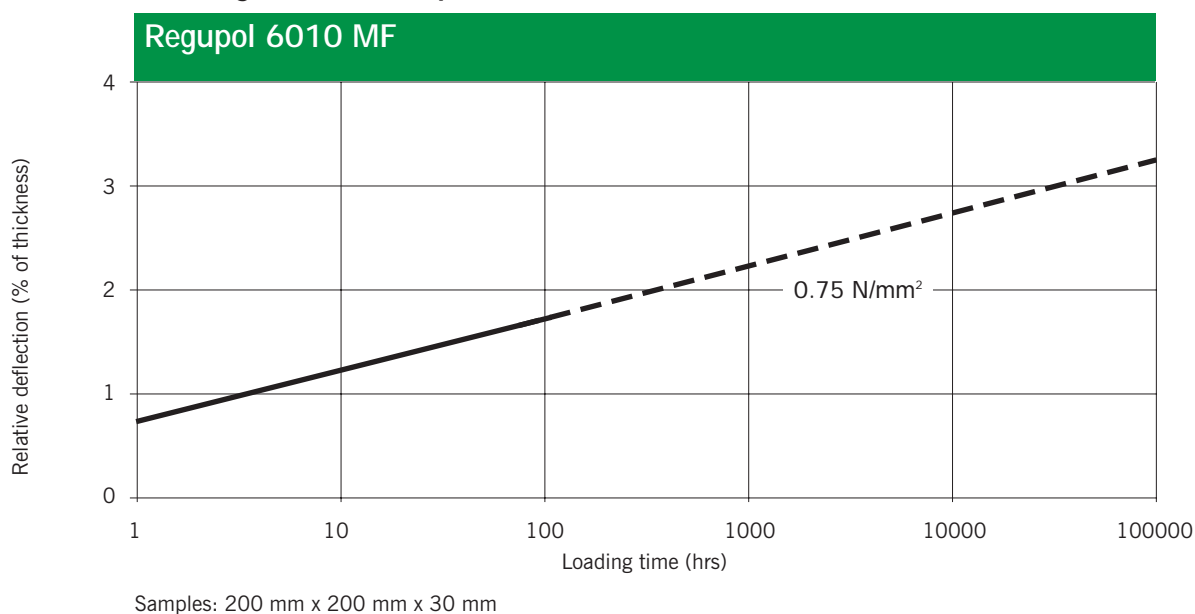
4 Modulus of Elasticity



5 Dynamic Rigidity



6 Long-term Creep Test



Technical Data

Regupol® is made of polyurethane-bound rubber-granulate.

Standard supply forms ex warehouse:

Thickness: 10 mm

Width: 1,250 mm

Rolls:

Length: 8,000 mm

Stripping/plates:

On request

Permanent static load range:

1.5 N/mm²

Static Modulus of Elasticity	Similar to EN 826	9.80-14.0	N/mm ²	Tangential modulus see fig. 4
Dynamic Modulus of Elasticity	Similar to DIN 53513	4.0-18.50	N/mm ²	Depending on load and frequency, see fig. 4
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
Inflammability	DIN 4102	B 2	-	Normal inflammable

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