

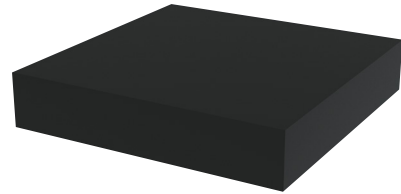
Cisador 160

Elastomeric bearing for vibration isolation

Product information

DIMENSIONS AND WEIGHTS

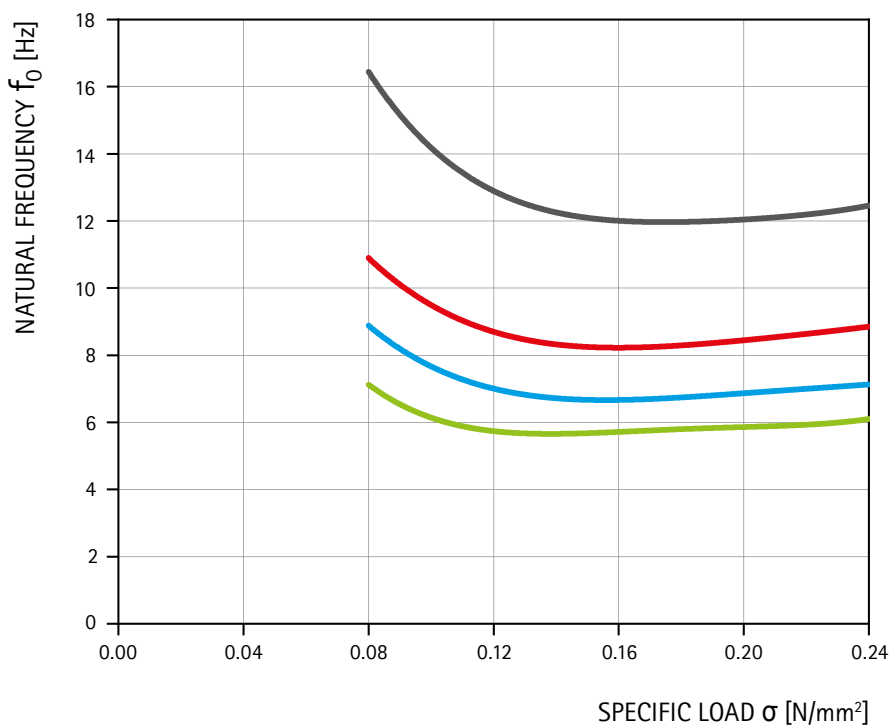
Length	950 mm
Width	700 mm
Thickness	15 mm
Weight	7.0 kg / m ²
Cut to size	available on request



PROPERTIES

Materials	Closed-cell, microcellular EPDM
Permanent load	$\leq 0.16 \text{ N/mm}^2$
Permanent load + dynamic load	$\leq 0.28 \text{ N/mm}^2$
Load peaks (occasional and short-term)	$\leq 3.20 \text{ N/mm}^2$
Thermal stability	$-40^\circ\text{C} + 100^\circ\text{C}$
Flammability	B2 acc. to DIN 4102 (normally combustible)
Water absorption	$< 2\%$

Natural frequency



NATURAL FREQUENCY CURVE

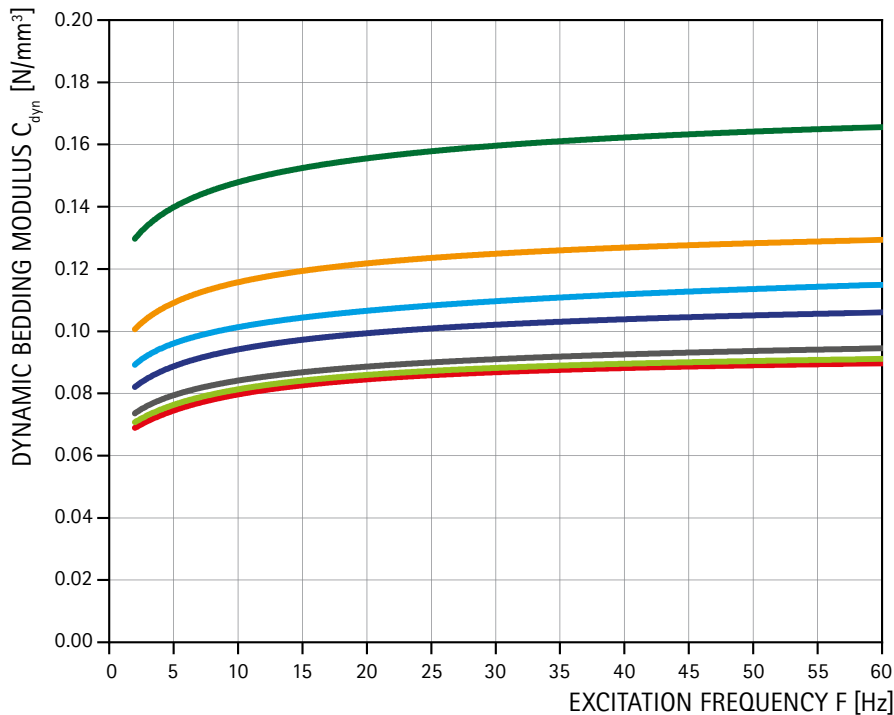
The figure shows the natural frequency of a single-degree-oscillator with Cisador 160 as an elastic bearing for an excitation with a velocity amplitude of 1 mm/s.

- t = 15 mm
- t = 30 mm
- t = 45 mm
- t = 60 mm

Cisador 160

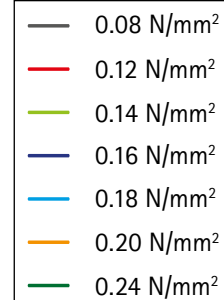
Elastomeric bearing for vibration isolation

Dynamic bedding modulus depending on the excitation frequency (15 mm)

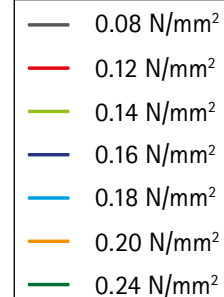
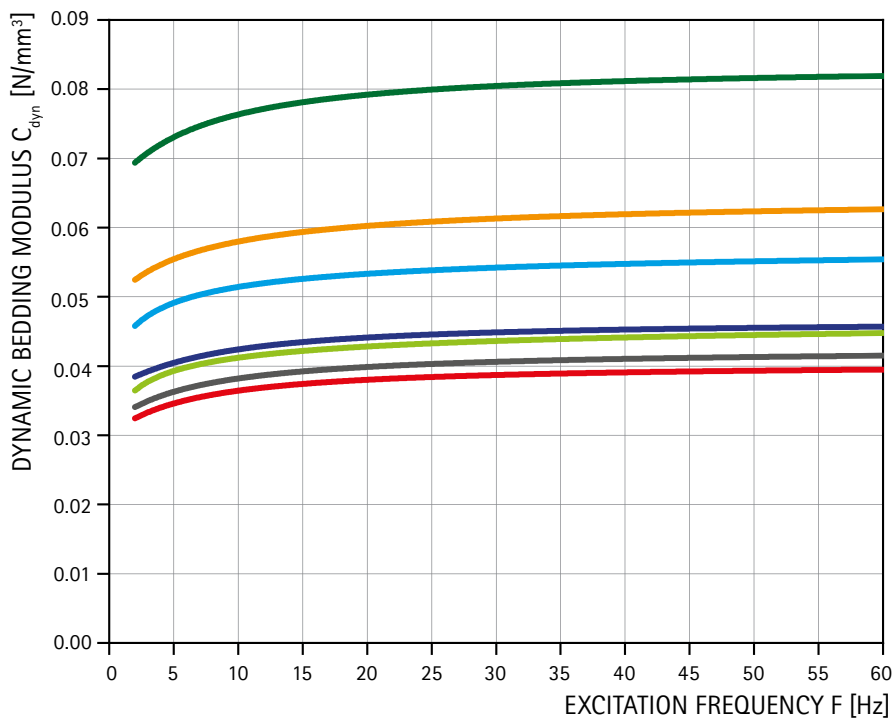


BEDDING MODULUS CURVES

The figures shows the dynamic bedding moduli for an excitation with a velocity amplitude of 1 mm/s and for different vertical compressive stresses.



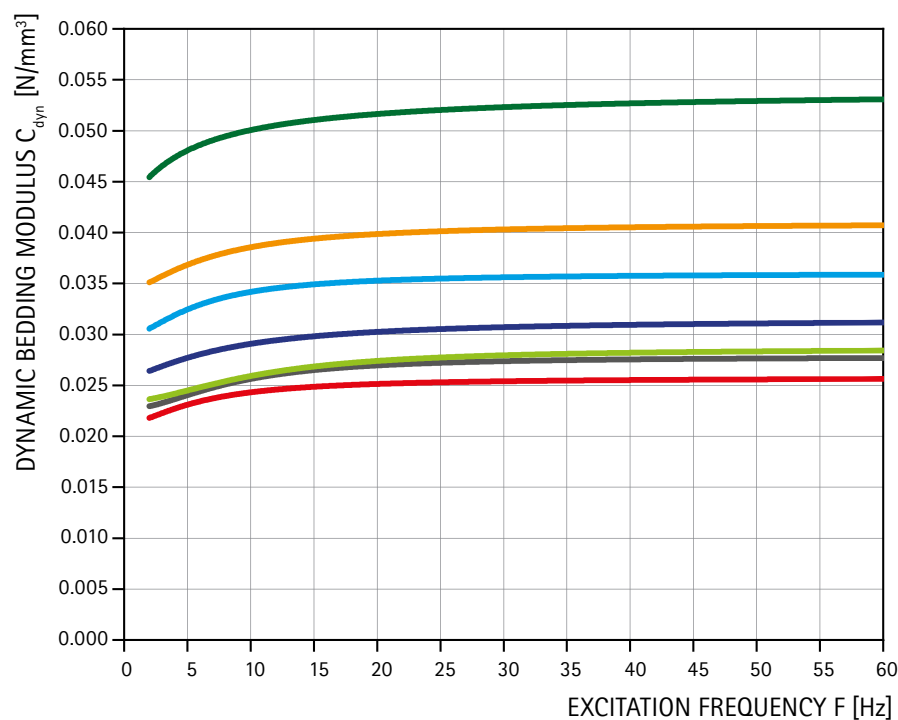
Dynamic bedding modulus depending on the excitation frequency (30 mm)



Cisador 160

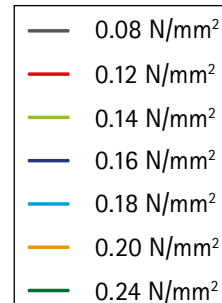
Elastomeric bearing for vibration isolation

Dynamic bedding modulus depending on the excitation frequency (45 mm)

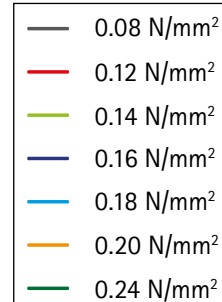
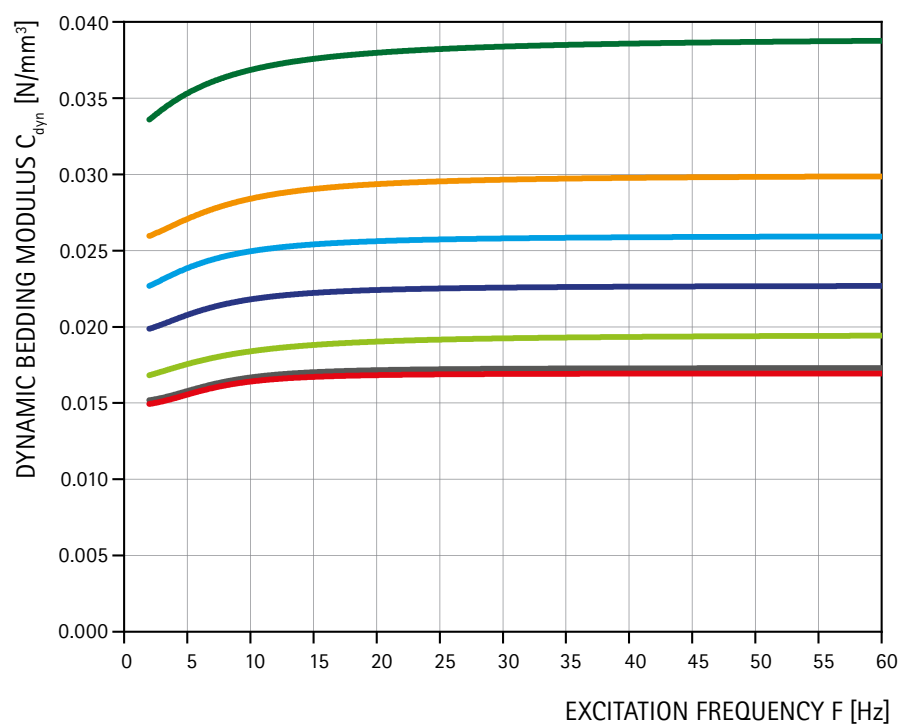


BEDDING MODULUS CURVES

The figures shows the dynamic bedding moduli for an excitation with a velocity amplitude of 1 mm/s and for different vertical compressive stresses.



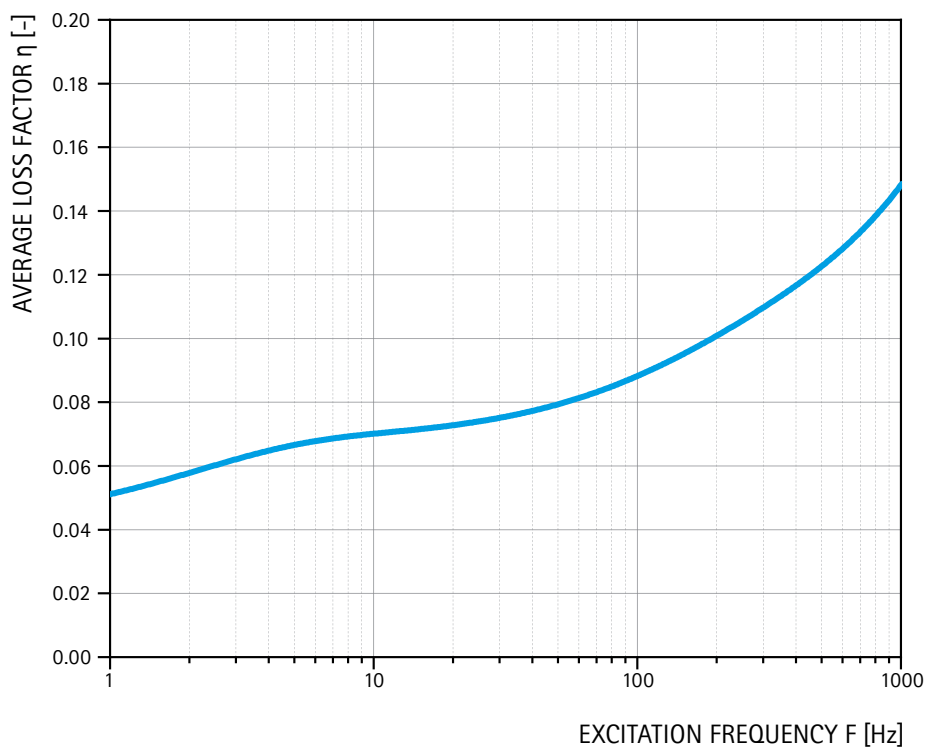
Dynamic bedding modulus depending on the excitation frequency (60 mm)



Cisador 160

Elastomeric bearing for vibration isolation

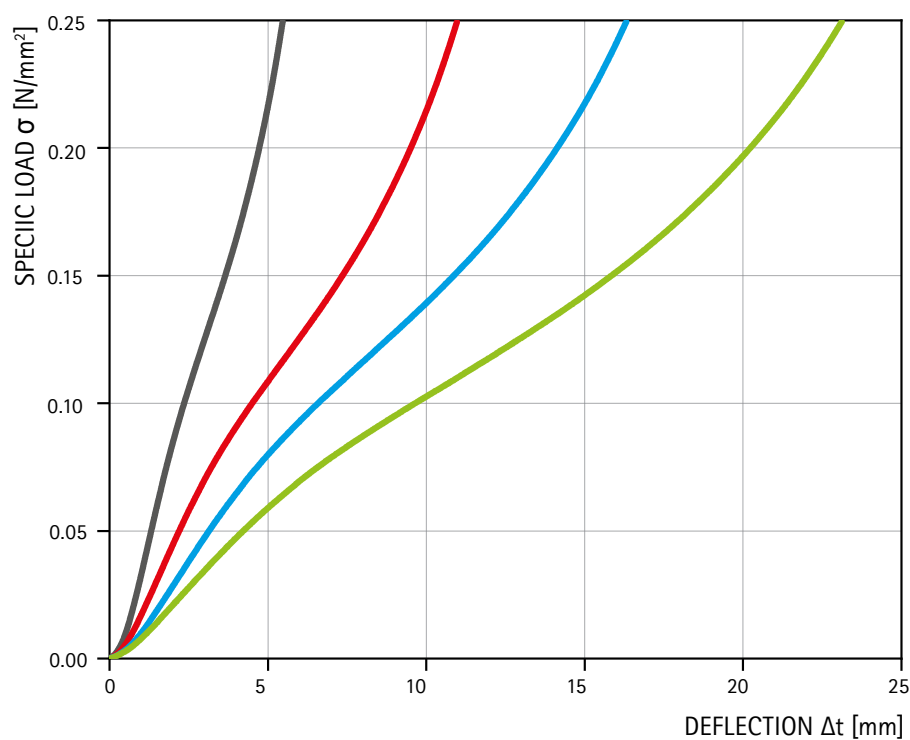
Loss factor



LOSS FACTOR CURVE

The loss factor is a measure of the energy loss per cycle in an oscillating system. The values shown in the diagram were determined by a DMA analysis using the WLF master curve method with a reference temperature of 20°C in order to be able to represent as wide a frequency range as possible.

Load deflection



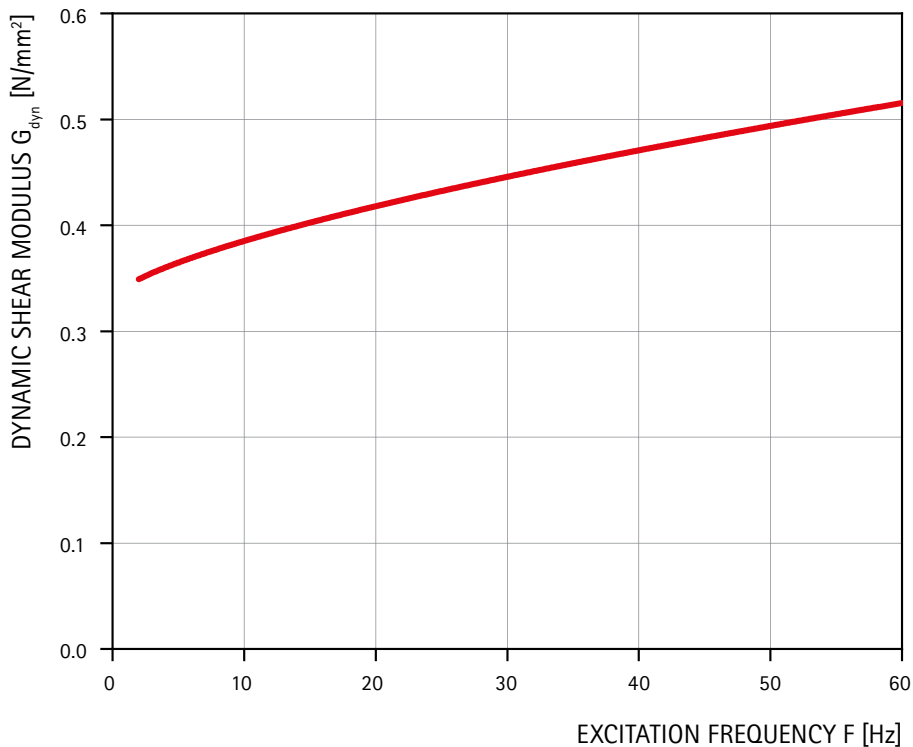
LOAD DEFLECTION CURVE

Application of uniaxial pressure against vertical deformation.

- $t = 15$ mm
- $t = 30$ mm
- $t = 45$ mm
- $t = 60$ mm

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Shear modulus**SHEAR MODULUS CURVE**

The diagram shows the shear modulus of the 15 mm thick Cisador 160 at a vibration velocity amplitude of 1 mm/s as a function of frequency. For greater thicknesses, the shear modulus tends to be lower.

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