Ciflex R 65

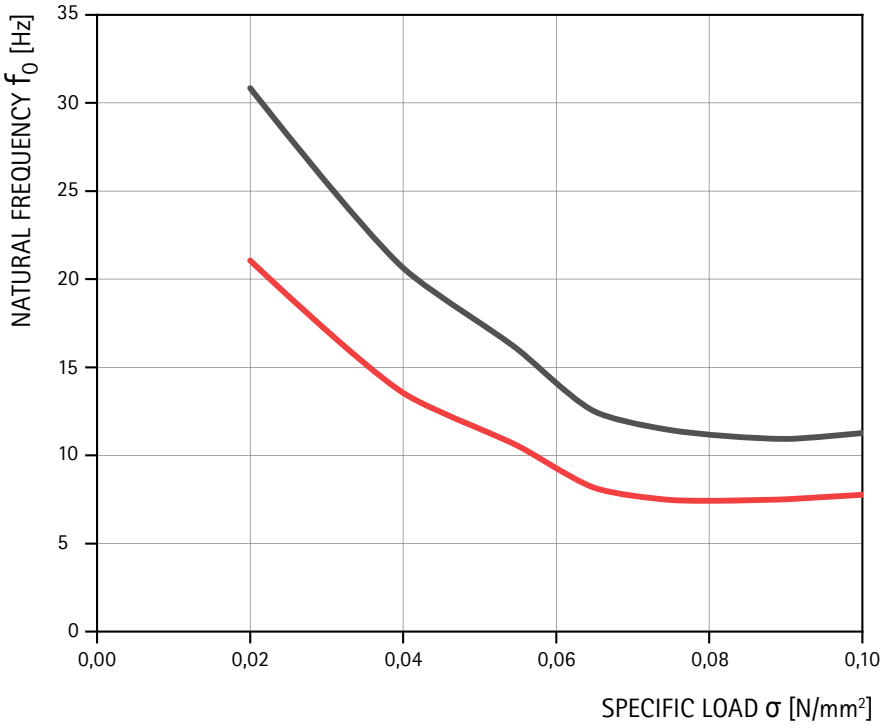
Elastomeric bearing for vibration isolation

Product information

DIMENSIONS AND WEIGHTS	
Length	2000 mm
Width	1000 mm
Thickness	25 mm 50 mm
Weight	6.38 kg / m² 12.75 kg / m²
Cut to size	available on request

PROPERTIES	
Materials	Foamed polyurethane material
Permanent load	≤ 0.065 N/mm²
Permanent load + dynamic load	≤ 0.100 N/mm²
Load peaks (occasional and short-term)	≤ 0.300 N/mm²
Thermal stability	-30°C + 60°C
Flammability	B2 acc. to DIN 4102 (normally combustible)

Natural frequency



NATURAL FREQUENCY CURVE

The figure shows the natural frequency of a single-degree-oscillator with Ciflex R 65 as an elastic bearing for an excitation with a velocity amplitude of 1 mm/s.

t = 25 mm
t = 50 mm

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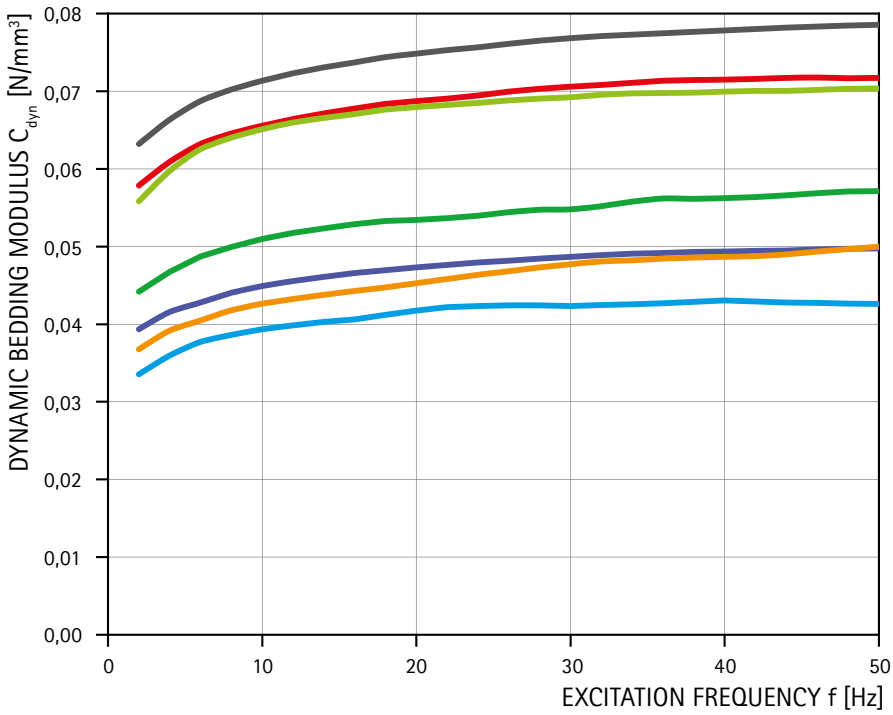
Dynamic bedding modulus depending on the excitation frequency (25 mm)

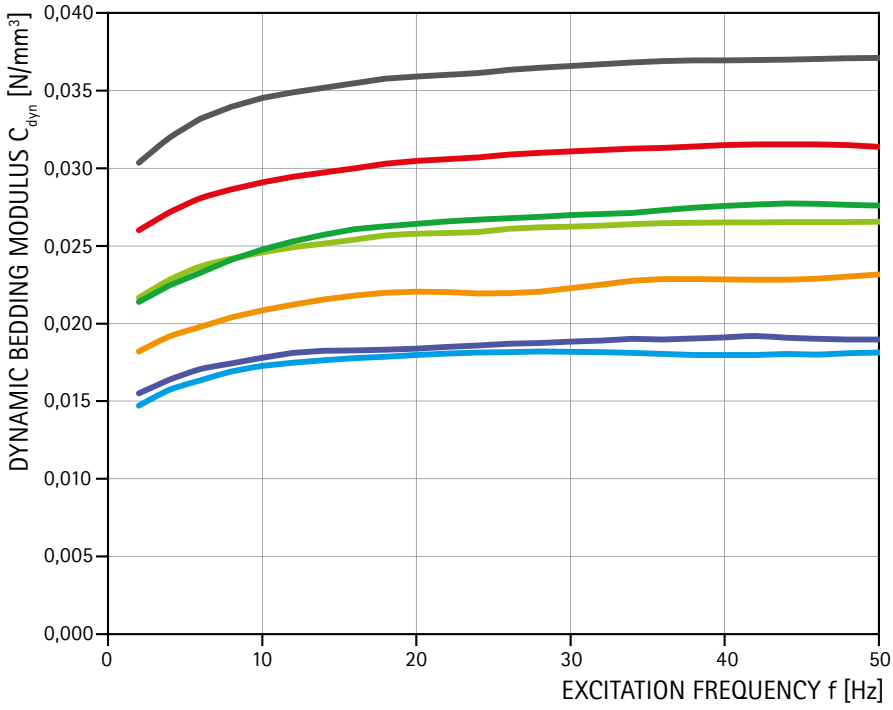


DIAGRAMME

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

- 0.020 N/mm²
- 0.040 N/mm²
- 0.055 N/mm²
- 0.065 N/mm²
- 0.075 N/mm²
- 0.090 N/mm²
- 0.100 N/mm²

Dynamic bedding modulus depending on the excitation frequency (50 mm)



- 0.020 N/mm²
- 0.040 N/mm²
- 0.055 N/mm²
- 0.065 N/mm²
- 0.075 N/mm²
- 0.090 N/mm²
- 0.100 N/mm²

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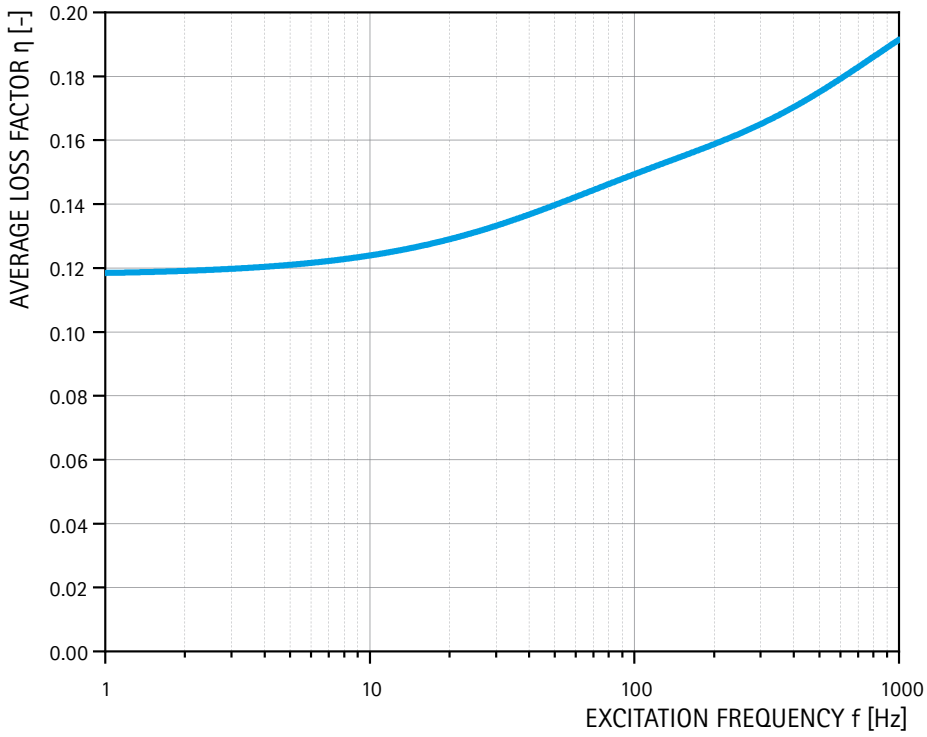
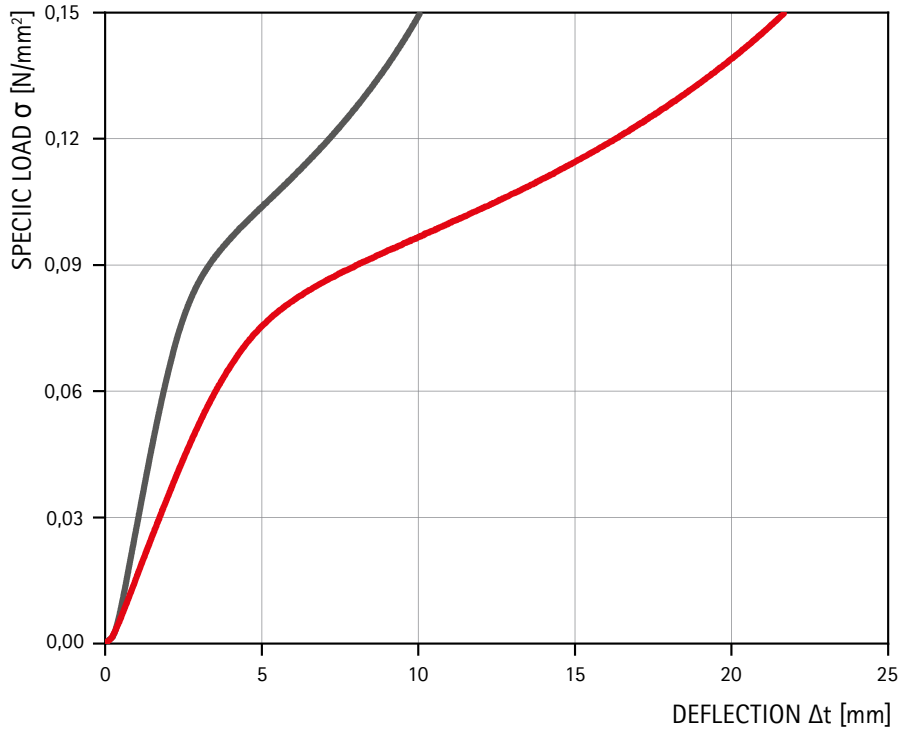
Loss factor



LOSS FACTOR CURVE

The loss factor is a measure of the energy loss per cycle in a vibrating 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.

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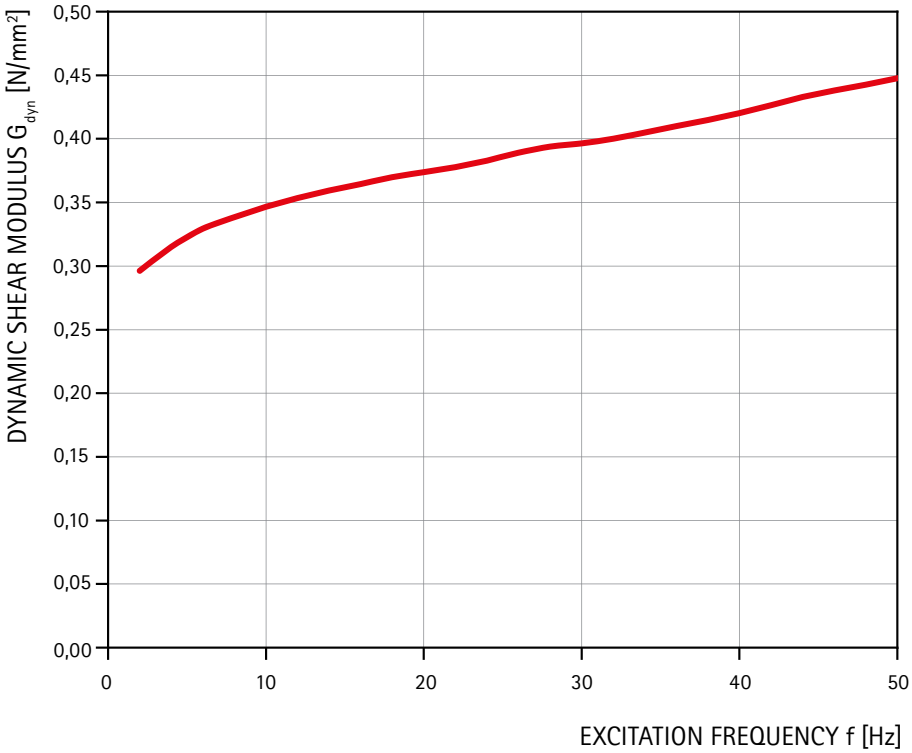
Shear modulus



SHEAR MODULUS CURVE

The diagram shows the shear modulus of the 25 mm thick Ciflex R 65 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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