

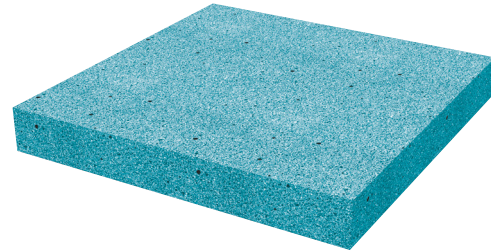
Ciflex R 25

Elastomeric bearing for vibration isolation

Product information

DIMENSIONS AND WEIGHTS

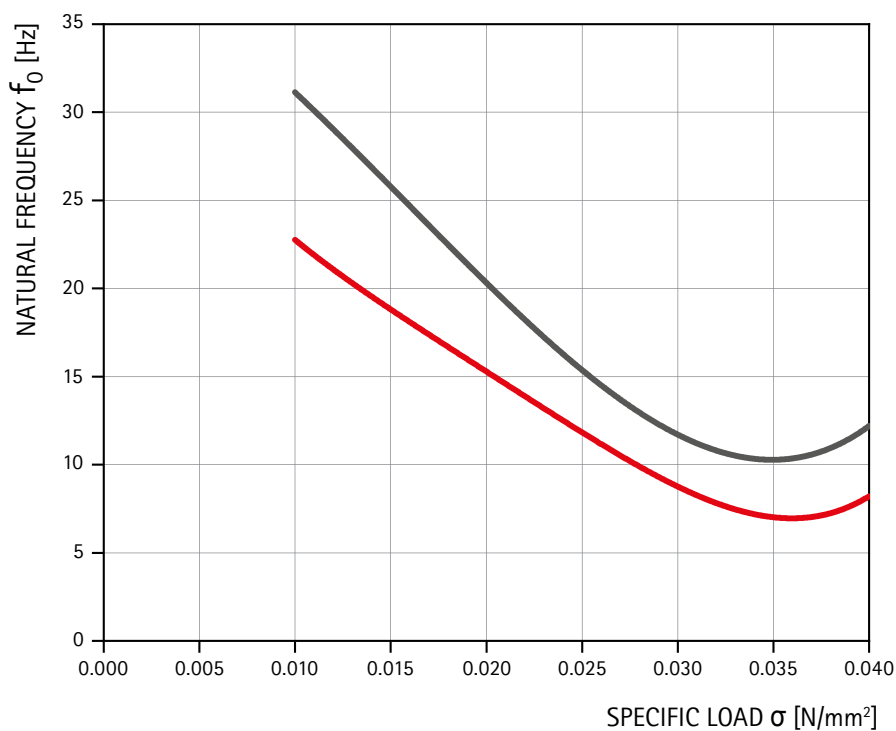
| | |
|-------------|--|
| Length | 2000 mm |
| Width | 1000 mm |
| Thickness | 25 mm 50 mm |
| Weight | 4.13 kg/m ² 8.25 kg/m ² |
| Cut to size | available on request |



PROPERTIES

| | |
|--|--|
| Materials | Foamed polyurethane material |
| Permanent load | ≤ 0.028 N/mm ² |
| Permanent load + dynamic load | ≤ 0.037 N/mm ² |
| Load peaks (occasional and short-term) | ≤ 1.0 N/mm ² |
| Thermal stability | -30°C + 60°C |
| Flammability | B2 acc. to DIN 4102 (normally combustible) |

Natural frequency



NATURAL FREQUENCY CURVE

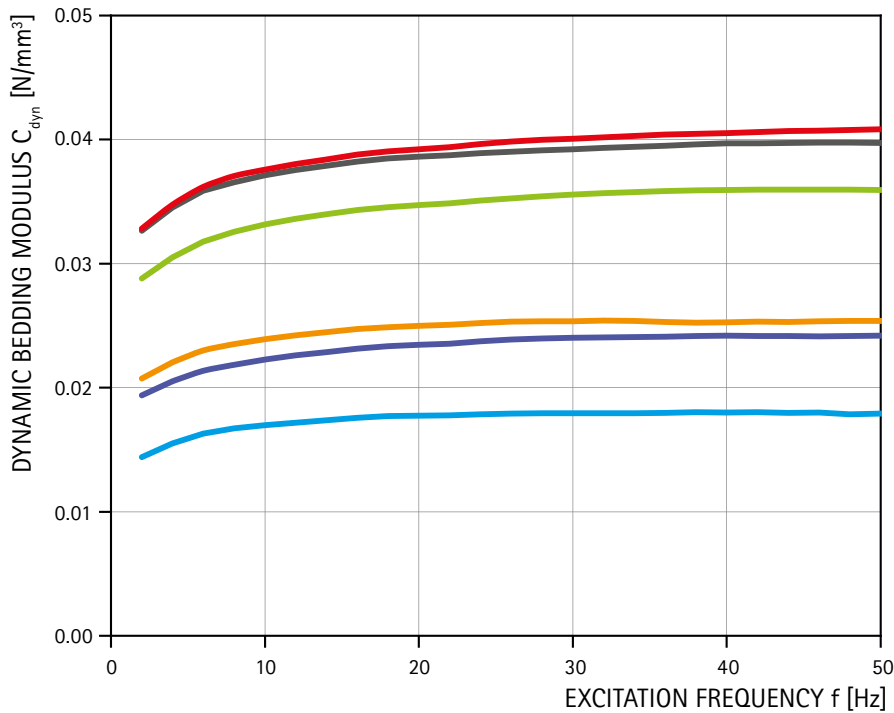
The figure shows the natural frequency of a single-degree-oscillator with Ciflex R 25 as an elastic bearing for an excitation with a velocity amplitude of 1 mm/s.

— t = 25 mm
— t = 50 mm

Ciflex R 25

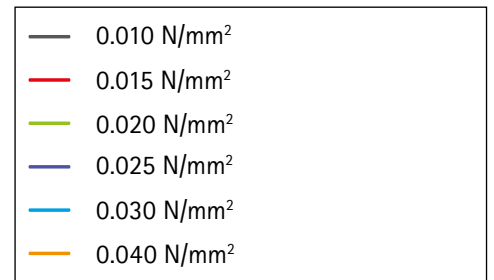
Elastomeric bearing for vibration isolation

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

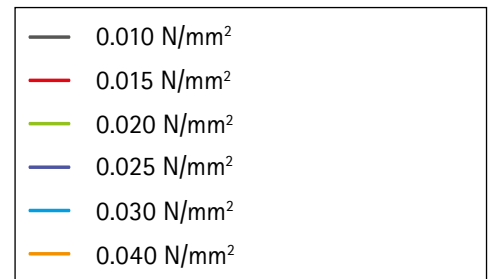
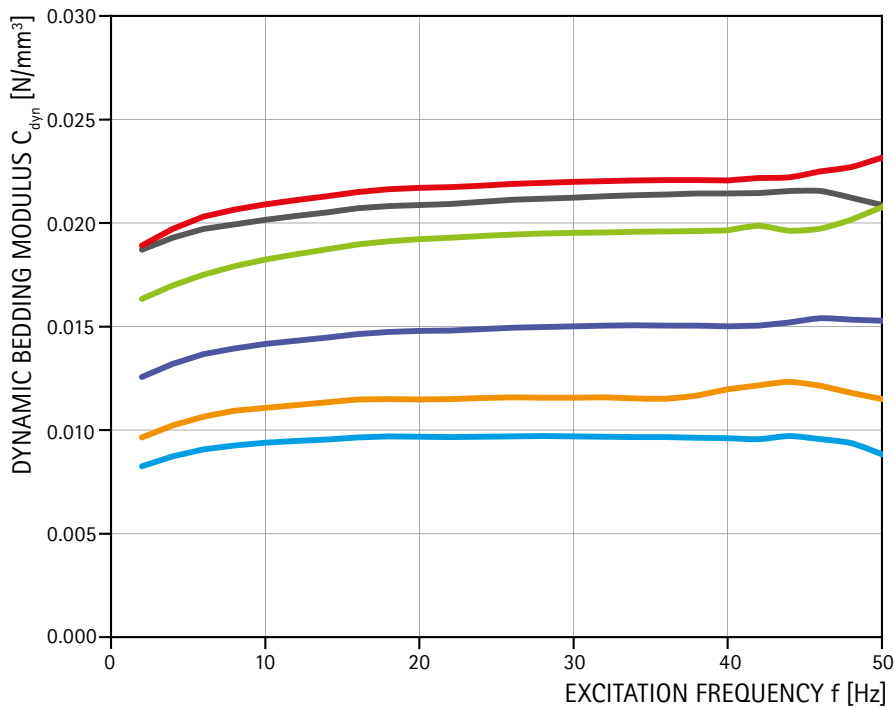


DIAGRAMME

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



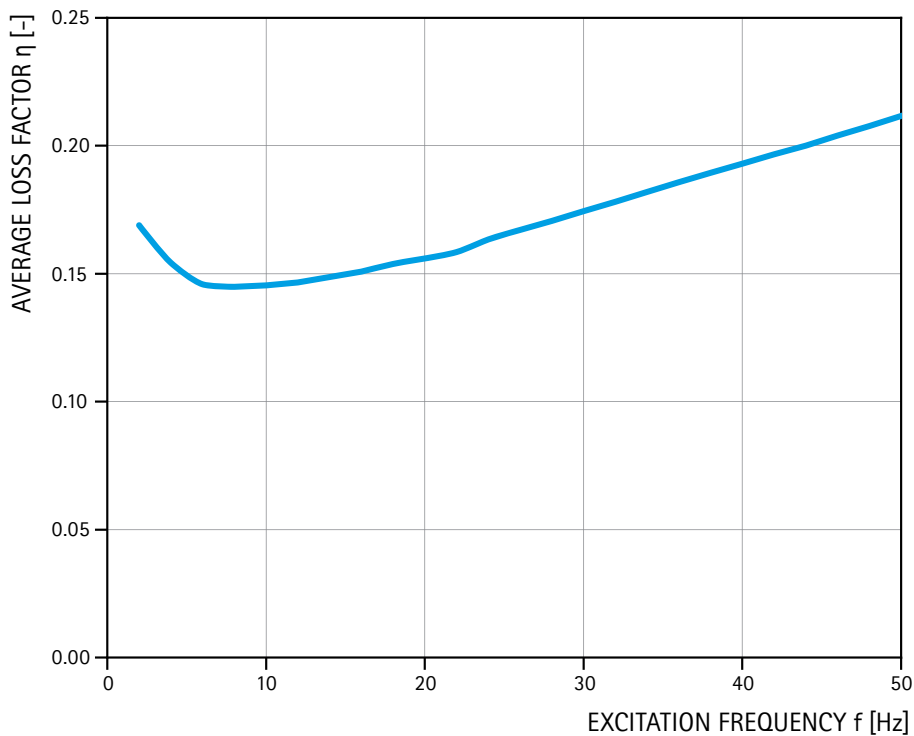
Dynamic bedding modulus depending on the excitation frequency (50 mm)



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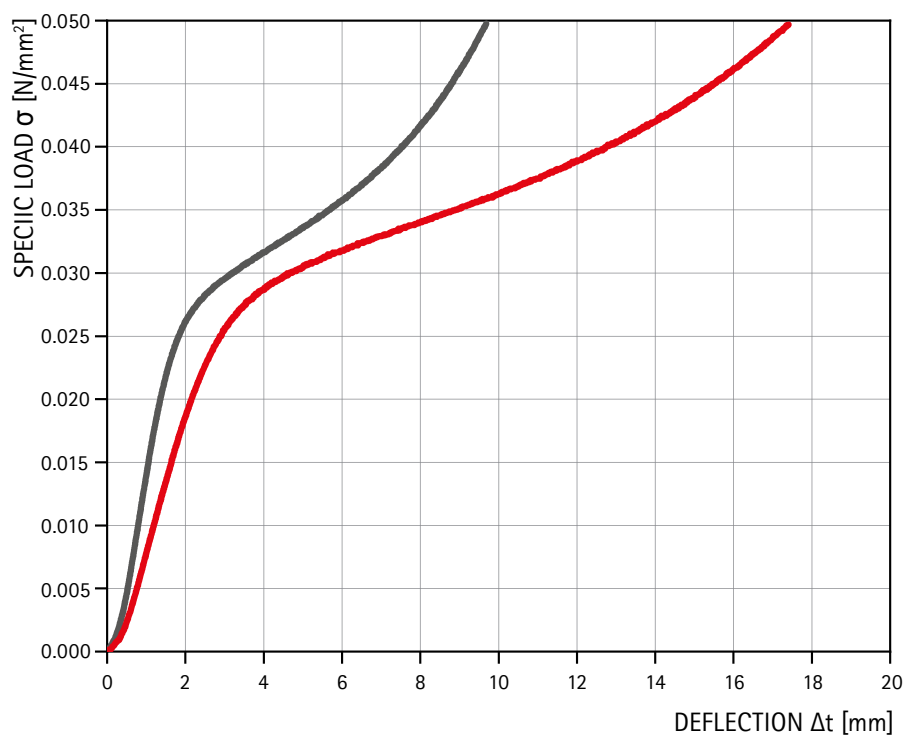
Loss factor



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 are valid for an excitation with a vibration velocity amplitude of 1 mm/s.

Load deflection



LOAD DEFLECTION CURVE

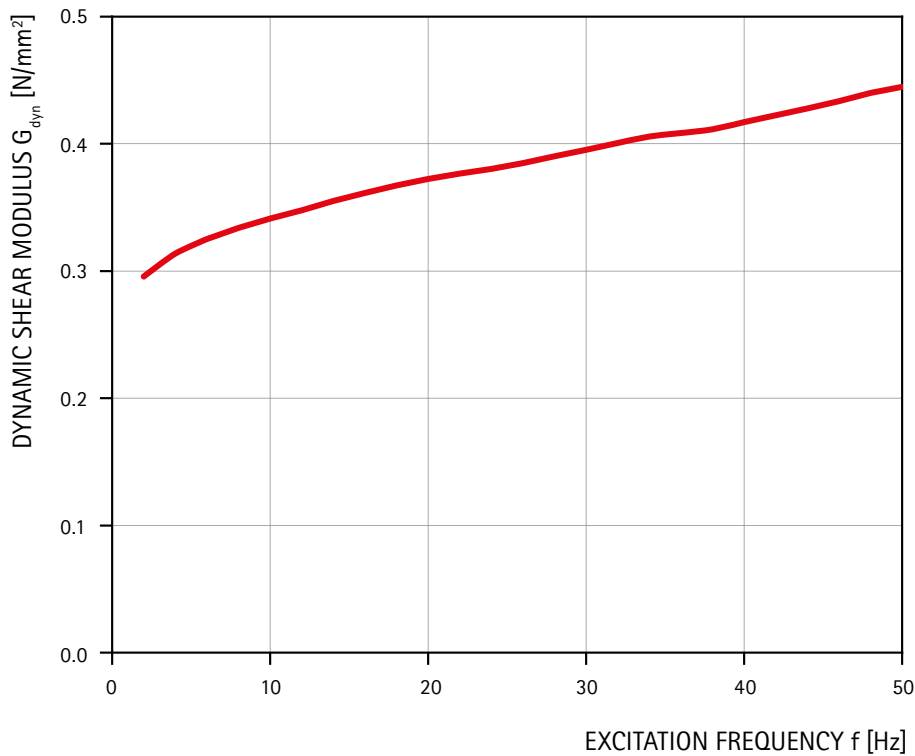
Application of uniaxial pressure against vertical deformation.

— t = 25 mm
— t = 50 mm

Ciflex R 25

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Shear modulus



SHEAR MODULUS CURVE

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