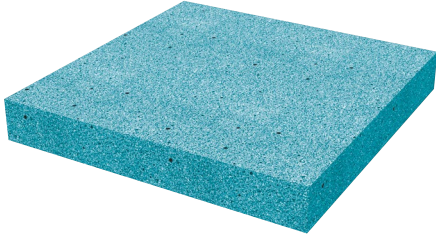


## Ciflex G 200

Elastomeric bearing for vibration isolation

### Product information

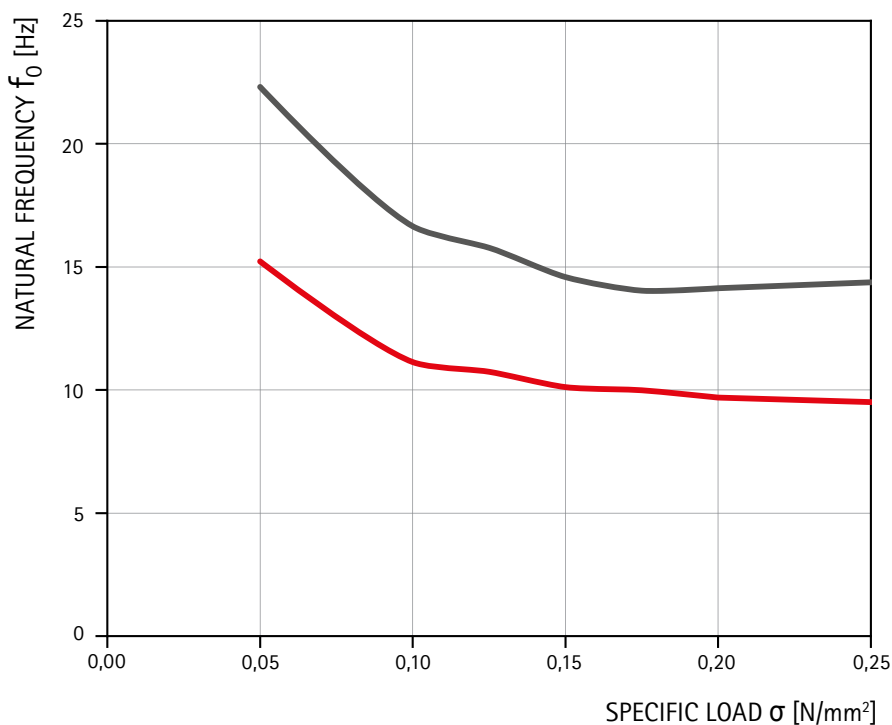
#### DIMENSIONS AND WEIGHTS

|             |  |  |
|-------------|--|--|
| Length      | 1200 mm  |  |
| Width       | 800 mm   |  |
| Thickness   | 25 mm<br>50 mm                                   |  |
| Weight      | 12.5 kg/m <sup>2</sup><br>25.0 kg/m <sup>2</sup> |  |
| Cut to size | available on request                             |  |

#### PROPERTIES

|  |  |
|--|--|
| Materials                              | PUR composite material                     |
| Permanent load                         | ≤ 0.200 N/mm <sup>2</sup>                  |
| Permanent load + dynamic load          | ≤ 0.300 N/mm <sup>2</sup>                  |
| Load peaks (occasional and short-term) | ≤ 0.400 N/mm <sup>2</sup>                  |
| Thermal stability                      | -30°C + 60°C                               |
| Flammability                           | B2 acc. to DIN 4102 (normally combustible) |

### Natural frequency



#### NATURAL FREQUENCY CURVE

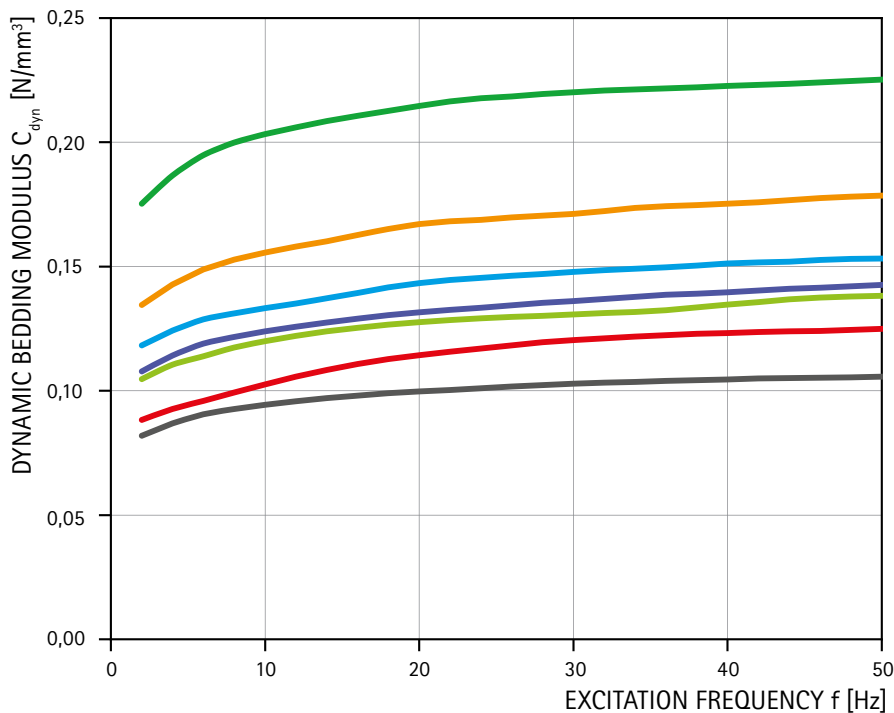
The figure shows the natural frequency of a single-degree-oscillator with Ciflex G 200 as an elastic bearing for an excitation with a velocity amplitude of 1 mm/s.

— t = 25 mm  
— t = 50 mm

## Ciflex G 200

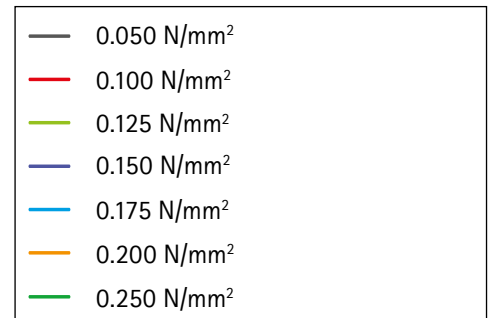
Elastomeric bearing for vibration isolation

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

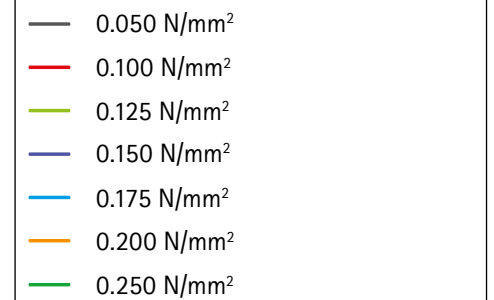
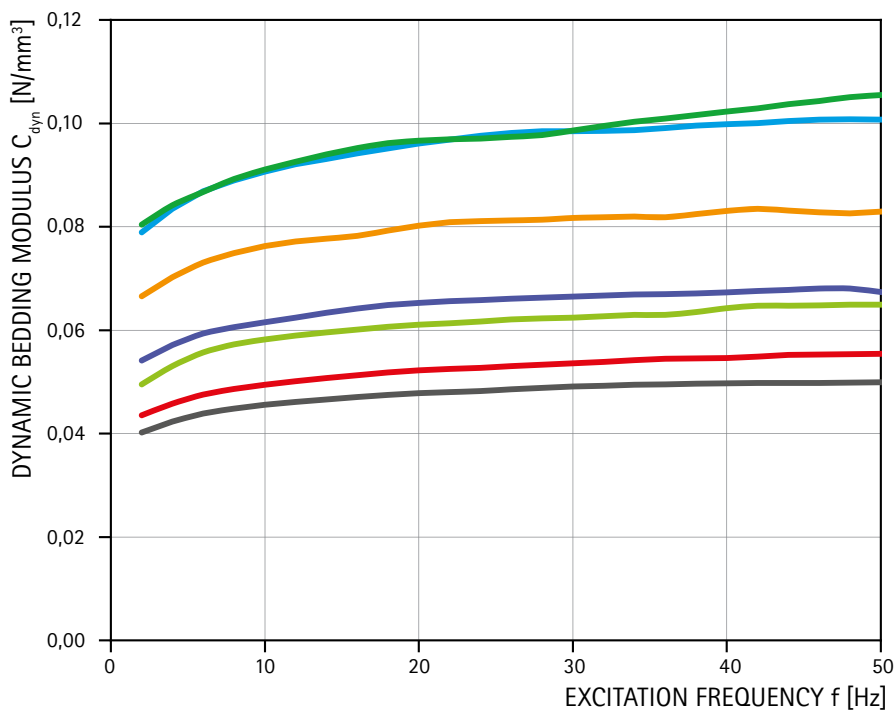


#### DIAGRAMS

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



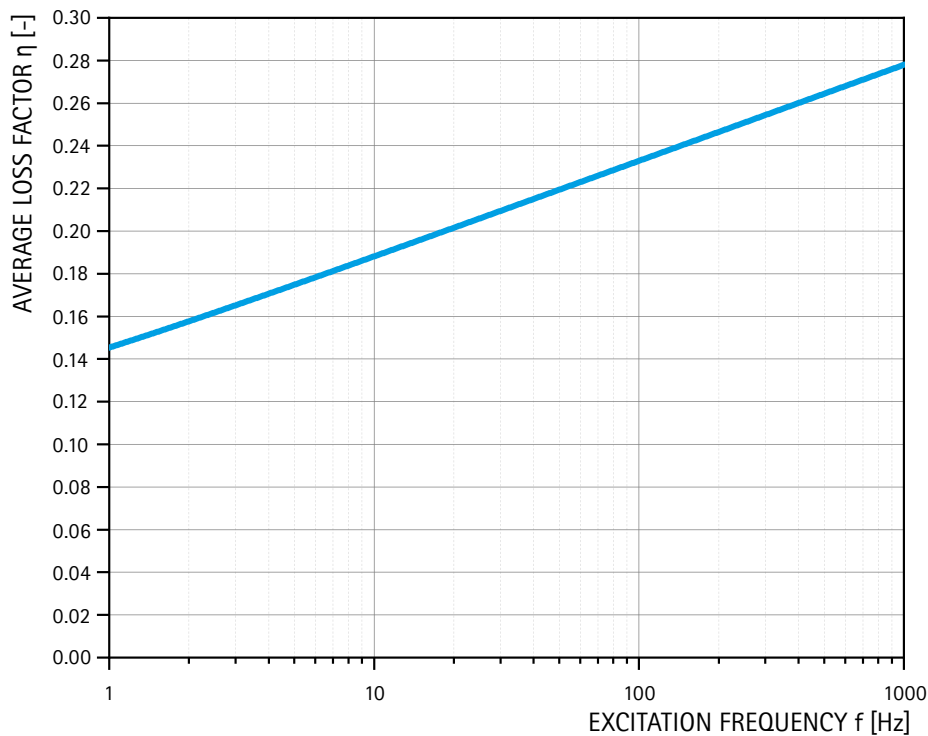
### Dynamic bedding modulus depending on the excitation frequency (50 mm)



## Ciflex G 200

Elastomeric bearing for vibration isolation

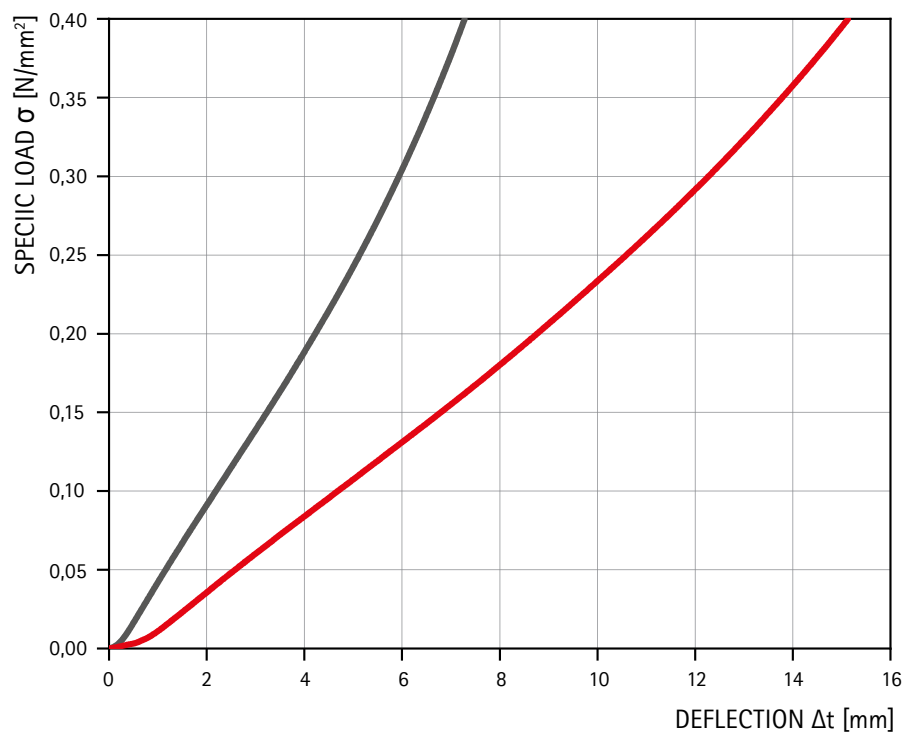
### Loss factor



#### 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

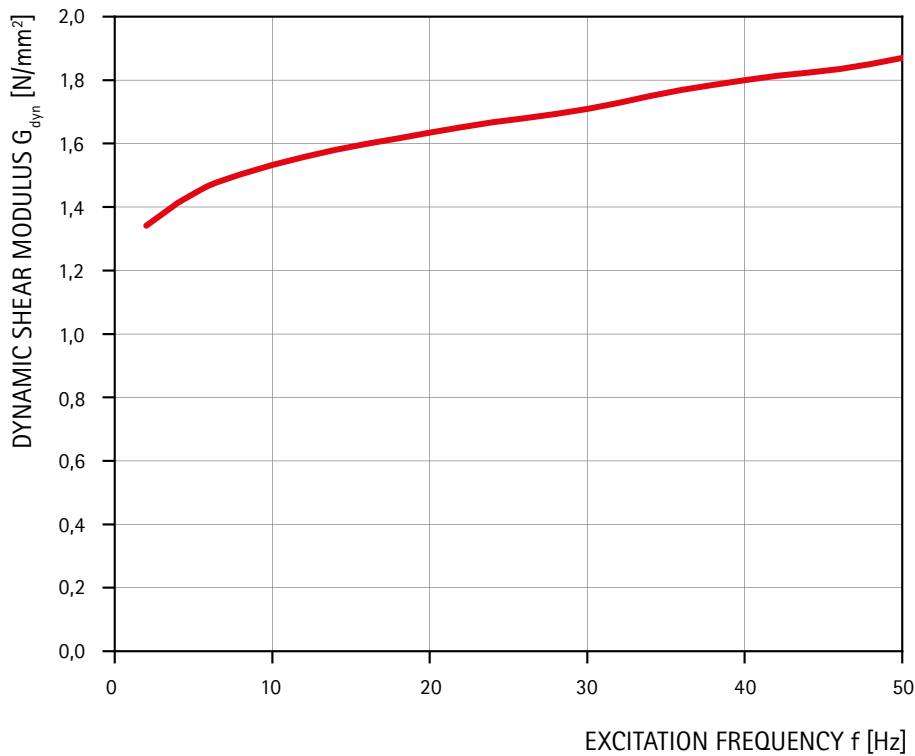
Application of uniaxial pressure against vertical deformation.

— t = 25 mm  
— t = 50 mm

## Ciflex G 200

Elastomeric bearing for vibration isolation

### Shear modulus



#### SHEAR MODULUS CURVE

The diagram shows the shear modulus of the 25 mm thick Ciflex G 200 at a vibration velocity amplitude of 1 mm/s as a function of frequency. For greater thicknesses, the shear modulus tends to be lower.

The contents of this publication are the result of many years of research and experience gained in the application of this technology. All information is given in good faith; it does not represent a guarantee with respect to characteristics and does not exempt the user from testing the suitability of products and from ascertaining that the industrial property rights of third parties are not violated. No liability whatsoever will be accepted for damage – regardless of its nature and its legal basis – arising from advice given in this publication. We reserve the right to make technical modifications in the course of product development.

© Copyright – Calenberg Ingenieure GmbH – 2021