TECHNICAL DATA SHEET



Ciflex N 170

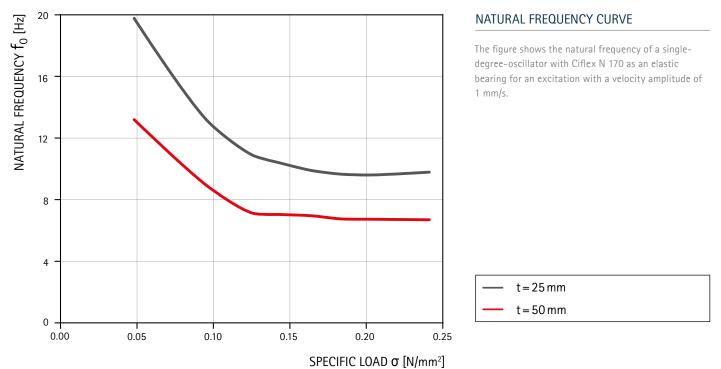
Elastomeric bearing for vibration isolation

Product information

DIMENSIONS AND WEIGHTS		
Length	1000 mm	
Width	500 mm	
Thickness	25 mm	
	Other thicknesses on request	
Weight	9.6 kg/m ²	
Cut to size	available on request	

PROPERTIES		
Materials	Foamed polyurethane material	
Permanent load	\leq 0.17 N/mm ²	
Permanent load + dynamic load	\leq 0.25 N/mm ²	
Load peaks (occasional and short-term)	≤ 0.85 N/mm ²	
Thermal stability	-30°C + 60°C	
Flammability	B2 acc. to DIN 4102 (normally combustible)	
Water absorption	< 8%	

Natural frequency

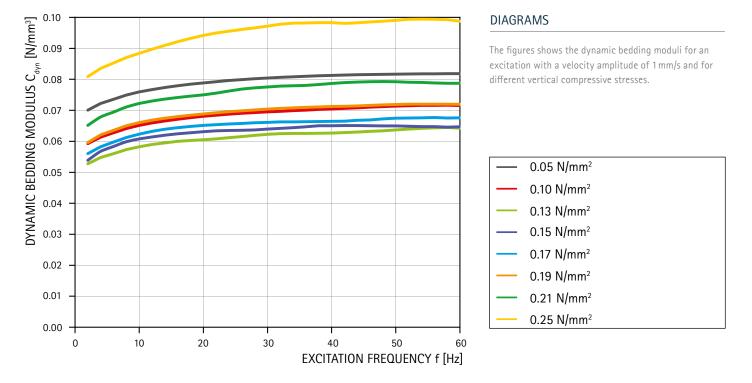


TECHNICAL DATA SHEET



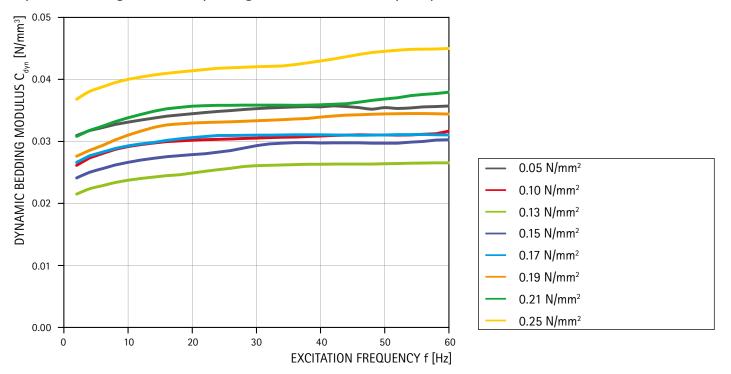
Ciflex N 170

Elastomeric bearing for vibration isolation



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

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

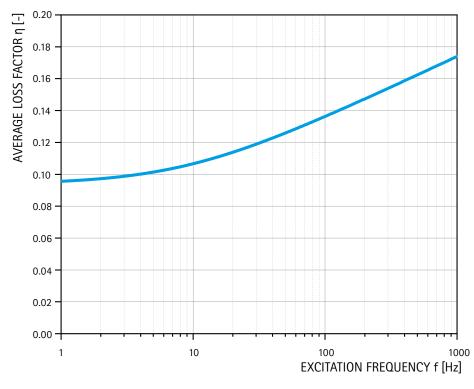




Ciflex N 170

Elastomeric bearing for vibration isolation

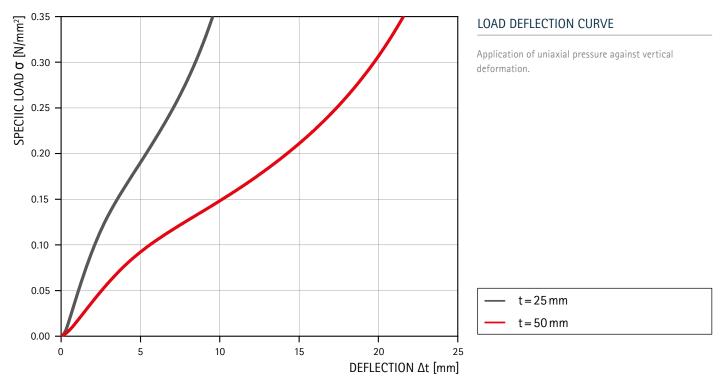
Loss factor



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



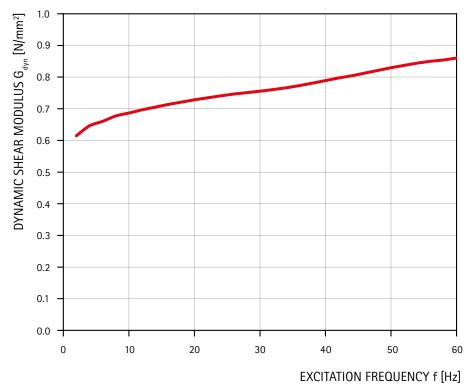
TECHNICAL DATA SHEET



Ciflex N 170

Elastomeric bearing for vibration isolation

Shear modulus



SHEAR MODULUS CURVE

The diagram shows the shear modulus of the 25 mm thick Ciflex N 170 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

Version 2