



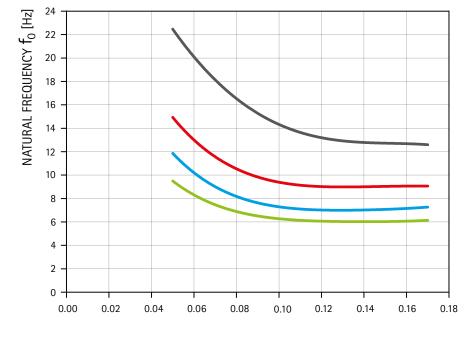
Cisador® 120 Elastomeric bearing for vibration isolation

Product information

DIMENSIONS AND WEIGHTS		
Length	1000 mm	
Width	750 mm	
Thickness	15 mm	
Weight	6 kg / m ²	
Cut to size	available on request	

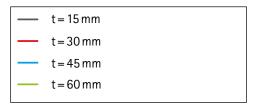
PROPERTIES		
Materials	Closed-cell, microcellular EPDM	
Permanent load	≤ 0.12 N/mm ²	
Permanent load + dynamic load	≤ 0.20 N/mm ²	
Load peaks (occasional and short-term)	≤ 1.00 N/mm²	
Thermal stability	-40°C + 100°C	
Flammability	B2 acc. to DIN 4102 (normally combustible)	
Water absorption	< 2%	

Natural frequency



NATURAL FREQUENCY CURVE

The figure shows the natural frequency of a single-degree-oscillator with Cisador® 120 as an elastic bearing for an excitation with a velocity amplitude of 1 mm/s.

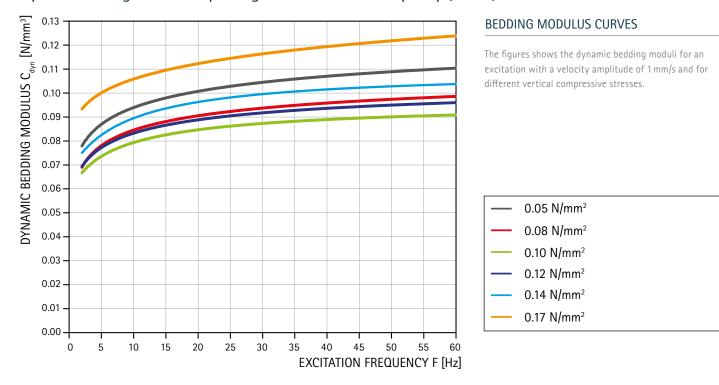


SPECIFIC LOAD σ [N/mm²]

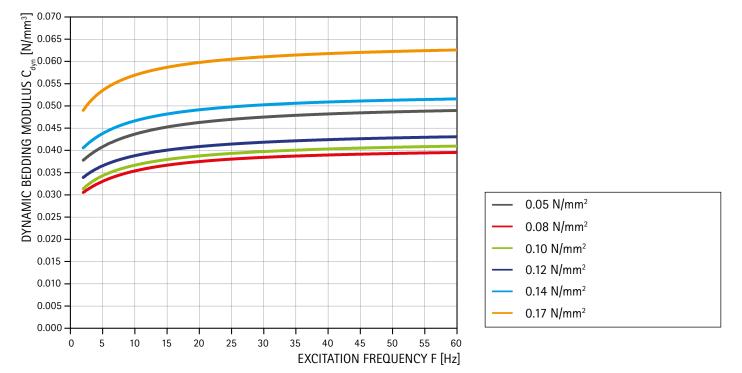


Cisador® **120** Elastomeric bearing for vibration isolation

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



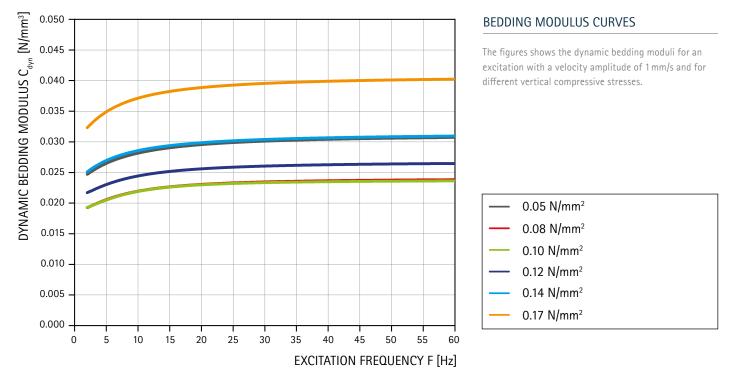
Dynamic bedding modulus depending on the excitation frequency (30 mm)



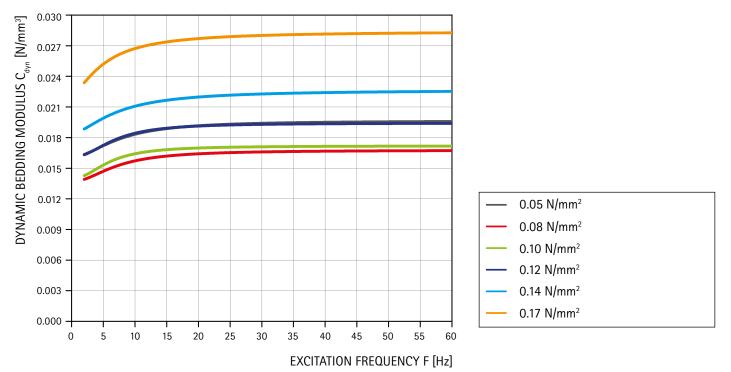


$\begin{array}{l} \textbf{Cisador}^{\$} \ \ \textbf{120} \\ \textbf{Elastomeric bearing for vibration isolation} \end{array}$

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



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

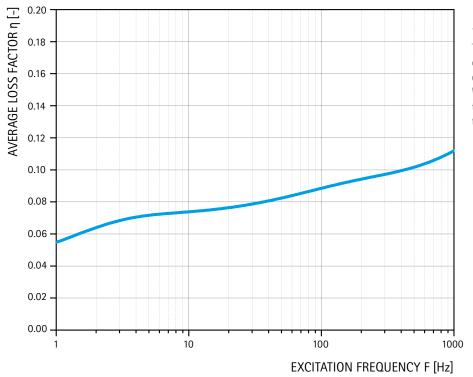






Cisador® 120 Elastomeric bearing for vibration isolation

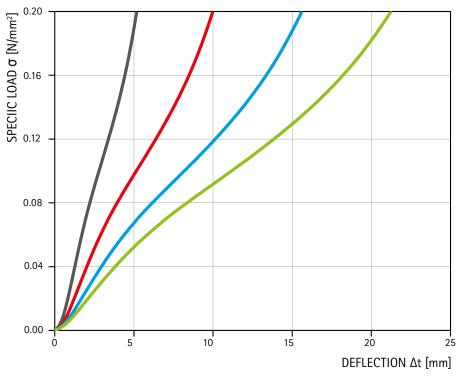
Loss factor



LOSS FACTOR CURVE

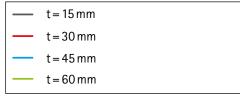
The loss factor is a measure of the energy loss per cycle in an oscillating system. The values shown in the diagram were determined by a DMA analysis using the WLF master curve method with a reference temperature of 20°C in order to be able to represent as wide a frequency range as possible.

Load deflection



LOAD DEFLECTION CURVE

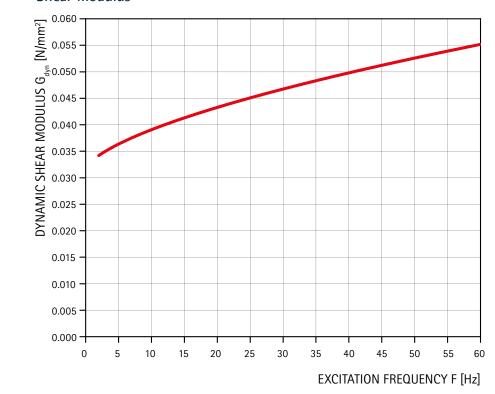
Application of uniaxial pressure against vertical deformation.





Cisador® 120 Elastomeric bearing for vibration isolation

Shear modulus



SHEAR MODULUS CURVE

The diagram shows the shear modulus of the 15 mm thick Cisador® 120 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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