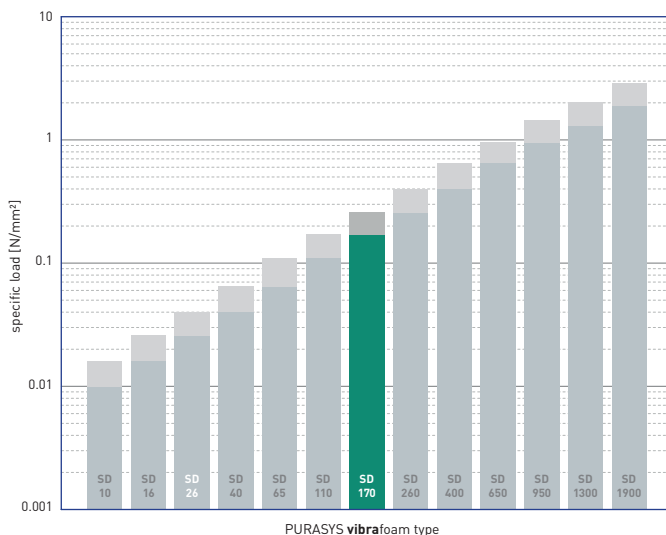


PURASYS **vibrafoam** series  
Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

**0.170**

Dynamic load: up to [N/mm²]

**0.260**

Load peaks: up to [N/mm²]

**3.5**

Values depending on form factor and apply to form factor  $q = 3$

**Material** mixed cellular polyether-urethane

**Colour** dark green

**Delivery specifications**

**Thickness:** 12.5 mm and 25 mm

**Mats:** 0.5 m wide, 2.0 m long

**Stripes:** max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

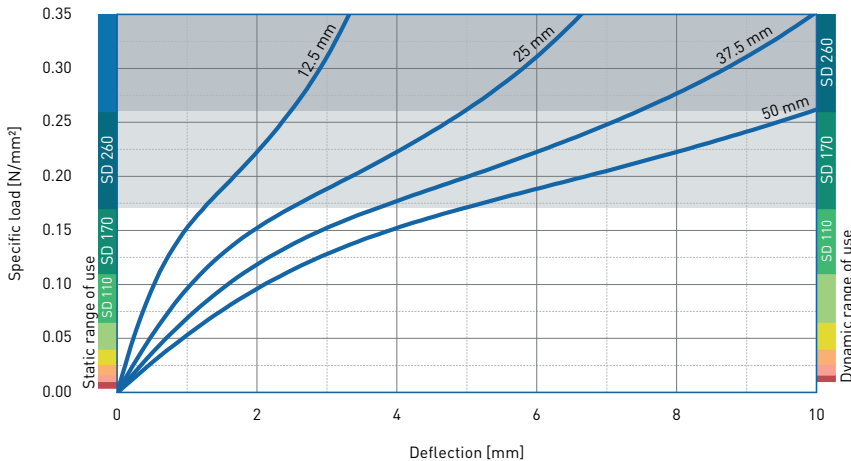
| Properties                            | Value                    | Test method              | Comment                                |
|---------------------------------------|--------------------------|--------------------------|----------------------------------------|
| Mechanical loss factor <sup>(1)</sup> | 0.13                     | DIN 53513 <sup>(2)</sup> | guide value                            |
| Static E-modulus <sup>(1)</sup>       | 0.931 N/mm <sup>2</sup>  | DIN 53513 <sup>(2)</sup> |                                        |
| Dynamic E-modulus <sup>(1)</sup>      | 2.27 N/mm <sup>2</sup>   | DIN 53513 <sup>(2)</sup> |                                        |
| Resistance to strain                  | 0.170 N/mm <sup>2</sup>  |                          | at 10% deformation                     |
| Residual compression set              | < 5 %                    | DIN EN ISO 1856          | 50%, 23°C, 70 h 30 min after unloading |
| Tensile strength                      | > 1.25 N/mm <sup>2</sup> | DIN 53455-6-4            | minimum                                |
| Elongation at break                   | > 400 %                  | DIN 53455-6-4            | minimum                                |
| Rebound elasticity                    | 50 %                     | DIN EN ISO 8307          | ± 10%                                  |
| Specific volume resistance            | > 10 <sup>11</sup> Ω·cm  | DIN IEC 93               | dry                                    |
| Thermal conductivity                  | 0.08 W/[m·K]             | DIN 52612-1              |                                        |
| Operating temperature                 | -30 bis +70 °C           |                          |                                        |
| Temperature peak                      | +120 °C                  |                          |                                        |
| Inflammability                        | Class E / EN 13501-1     | EN ISO 11925-1           | normal flammable                       |

<sup>(1)</sup> measured at maximum limit of static application range

<sup>(2)</sup> test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

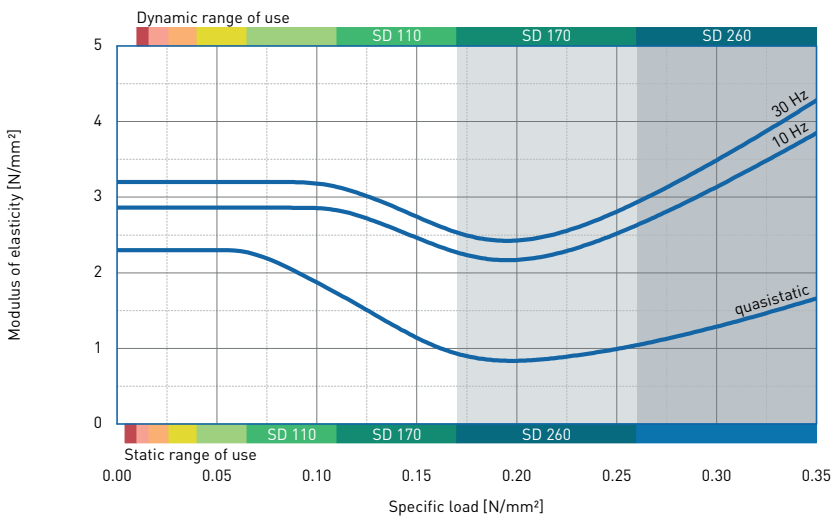
## Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor  $q = 3$

## Modulus of elasticity

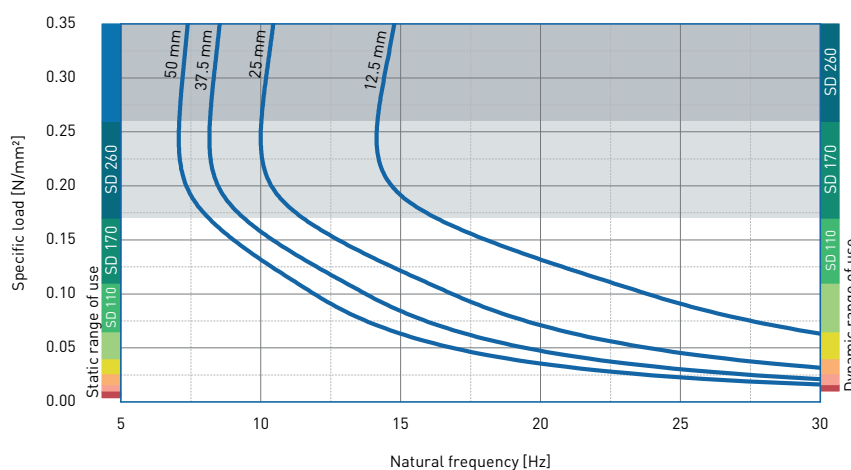


Dynamic test: sinusoidal excitation with an oscillating range of  $\pm 0.22$  mm at 10 Hz and  $\pm 0.08$  mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513  
Form factor  $q = 3$

## Natural frequency

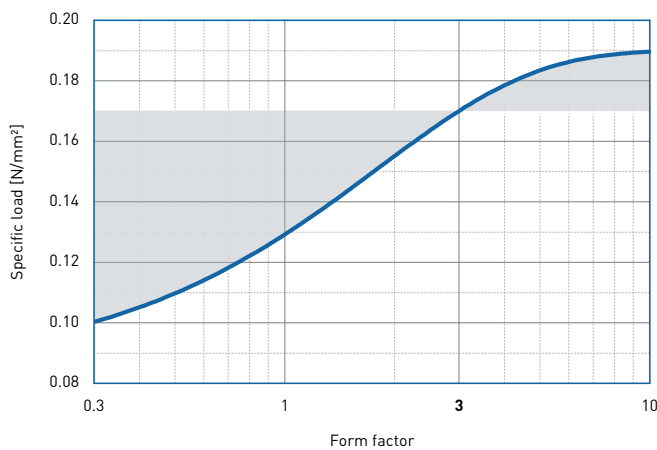


Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of PURASYS **vibrafoam** SD 170 on a stiff subgrade.

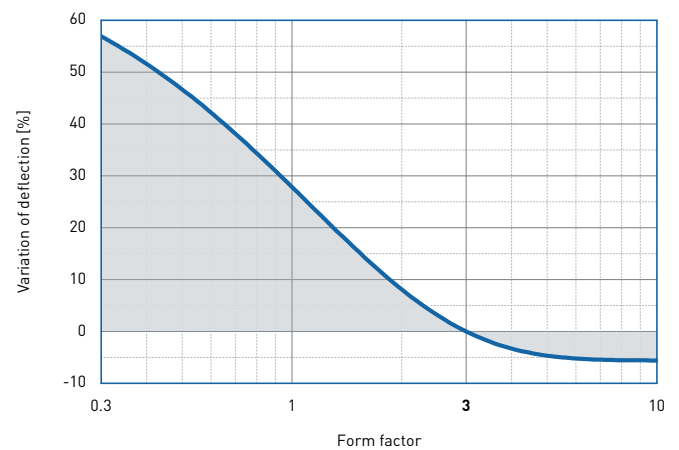
Form factor  $q = 3$

**Correction values varying form factors**  
specific load 0.17 N/mm<sup>2</sup>, form factor  $q = 3$

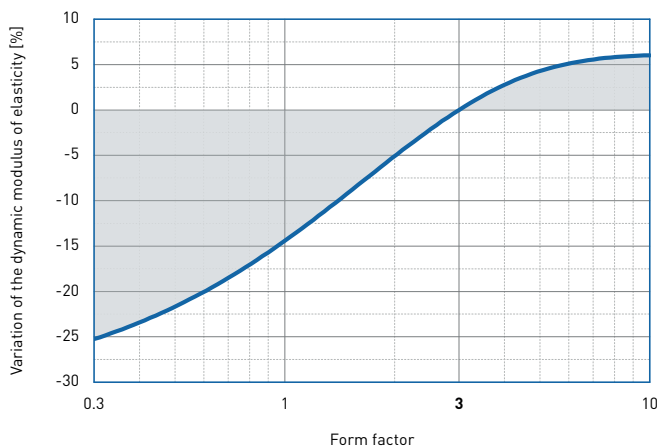
**Static load range**



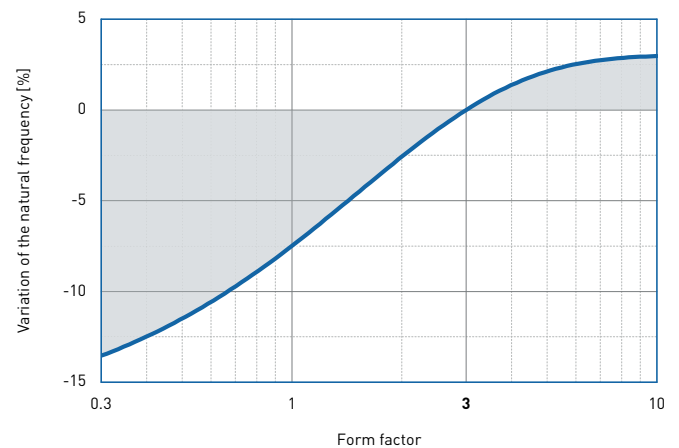
**Deflection**



**Dynamic modulus of elasticity at 10 Hz**



**Natural frequency**



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