

Vibrafoam®

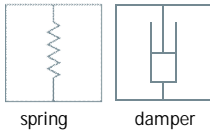
For Vibration Isolation and Structure-Borne Noise Reduction

■ Recommendations for elastic suspension

■ Material

Mixed cellular polyether-urethane

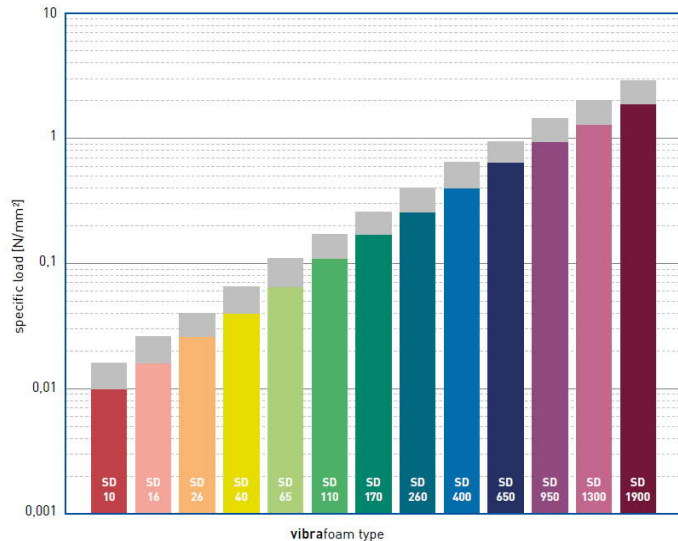
■ Characteristic



■ Delivery specifications

Thickness: 12.5 mm and 25 mm
Mats: 0.5 m wide, 2.0 m long
Stripes max. 2.0 m long
Other dimensions on request

Vibrafoam series
Working range



| Propertes | SD10 | SD16 | SD26 | SD40 | SD65 | SD110 | SD170 | SD260 | SD400 | SD650 | SD950 | SD1300 | SD1900 | Test method |
|---|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Colour | red | pink | orange | yellow | bright green | green | dark green | petrol | blue | dark blue | dark violet | violet | bordeaux red | |
| Static loads [N/mm²] ⁽¹⁾ | 0.010 | 0.016 | 0.026 | 0.040 | 0.065 | 0.110 | 0.170 | 0.260 | 0.400 | 0.650 | 0.950 | 1.300 | 1.900 | |
| Dynamic loads [N/mm²] ⁽¹⁾ | 0.016 | 0.026 | 0.040 | 0.065 | 0.110 | 0.170 | 0.260 | 0.400 | 0.650 | 0.950 | 1.450 | 2.000 | 2.800 | |
| Load peaks [N/mm²] ⁽¹⁾ | 0.5 | 0.7 | 1.0 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.5 | 6.0 | 6.5 | 7.0 | |
| Mechanical loss factor ⁽²⁾ | 0.25 | 0.24 | 0.22 | 0.15 | 0.18 | 0.12 | 0.13 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | DIN 53513 ⁽³⁾ |
| Static E-modulus [N/mm²] ⁽²⁾ | 0.048 | 0.111 | 0.129 | 0.316 | 0.453 | 0.861 | 0.931 | 1.64 | 2.72 | 4.57 | 8.16 | 12 | 20.4 | DIN 53513 ⁽³⁾ |
| Dynamic E-modulus [N/mm²] ⁽²⁾ | 0.144 | 0.328 | 0.443 | 0.743 | 1.06 | 1.86 | 2.27 | 3.63 | 5.27 | 10.4 | 21.5 | 35.2 | 78.2 | DIN 53513 ⁽³⁾ |
| Static shear modulus [N/mm²] ⁽²⁾ | 0.04 | 0.07 | 0.09 | 0.13 | 0.17 | 0.21 | 0.29 | 0.41 | 0.53 | 0.68 | 0.93 | 1.23 | 1.75 | DIN 53513 ⁽³⁾ |
| Dynamic shear modulus [N/mm²] ⁽²⁾ | 0.09 | 0.14 | 0.17 | 0.24 | 0.33 | 0.49 | 0.73 | 1.00 | 1.15 | 1.85 | 2.84 | 3.51 | 6.00 | DIN 53513 ⁽³⁾ |
| Resistance to strain at 10% deformation [N/mm²] | 0.011 | 0.018 | 0.026 | 0.046 | 0.073 | 0.130 | 0.170 | 0.270 | 0.370 | 0.590 | 0.930 | 1.340 | 1.840 | |
| Residual compression sett [%] | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <6 | <7 | <9 | <9 | <8 | DIN ISO 1856 |
| Tensile strenght [N/mm²] | >0.35 | >0.40 | >0.45 | >0.55 | >0.70 | >0.95 | >1.25 | >1.65 | >2.25 | >3.00 | >3.80 | >4.40 | >5.00 | DIN 53455-6-4 |
| Elongation at break [%] | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | >400 | DIN 53455-6-4 |
| Tear resistance [N/mm] | >0.6 | >0.7 | >0.9 | >1.1 | >1.3 | >1.9 | >2.5 | >2.9 | >3.2 | >3.8 | >5.2 | >5.4 | >6.0 | DIN ISO 34-1/A |
| Rebound elasticity [%] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 45 | 45 | 45 | 45 | 40 | 40 | DIN EN ISO 8307 |
| Specific volume resistance [α · cm] | >10 ¹² | >10 ¹² | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | >10 ¹¹ | DIN IEC 93 |
| Thermal conductivity [W/(m · K)] | 0.05 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | DIN 5612-1 |
| Operating temperature [°C] | - 30 bis + 70 | | | | | | | | | | | | | |
| Temperature peak [°C] | + 120 | | | | | | | | | | | | | |
| Inflammability | Class E / EN 13501-1 | | | | | | | | | | | | | |
| | EN ISO 11925-1 | | | | | | | | | | | | | |

⁽¹⁾ Values apply to form factor q = 3

⁽²⁾ Measured at maximum limit of static application range

⁽³⁾ Test according to respective standards

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