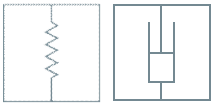
Vibrafoam®

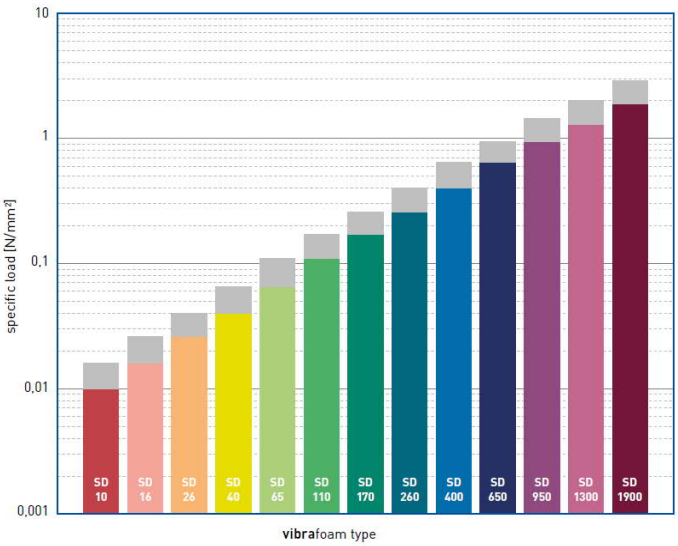
For Vibration Isolation and Structure-Borne Noise Reduction

- **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



Properties	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 [Ω · 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

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. Vibradyn (Vibrafoam) is a registered trademark of KRAIBURG Relastec GmbH & Co. KG