Regufoam® vibration 150 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.011 N/mm²
Continuous and variable loads/operating load range
0 to 0.016 N/mm²
Peak loads (rare, short-term loads)
0.5 N/mm²

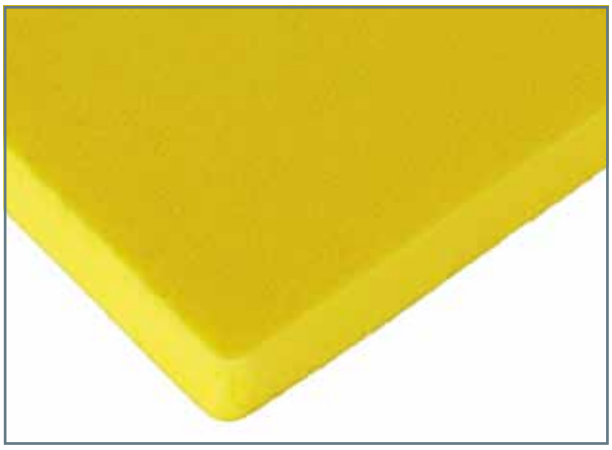
Static modulus of elasticity	Based on EN 826	0.06 - 0.16	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.15 - 0.38	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.28	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	1.6	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.31	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	220	%	
Tear resistance	Based on DIN ISO 34-1	1.2	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	14	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	34	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	49	%	dependent on thickness, test specimen h = 25 mm

Regufoam® vibration 190 plus

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.018 N/mm²
Continuous and variable loads/operating load range
0 to 0.028 N/mm²
Peak loads (rare, short-term loads)
0.8 N/mm²



Static modulus of elasticity	Based on EN 826	0.1 - 0.25	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.25 - 0.55	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.25	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	2.0	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.4	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	220	%	
Tear resistance	Based on DIN ISO 34-1	2.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	22	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	35	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	61	%	dependent on thickness, test specimen h = 25 mm

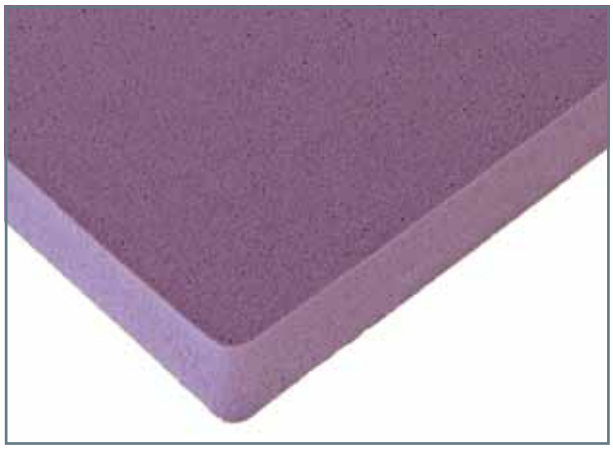
Regufoam® vibration 220 plus

2.3

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.028 N/mm²
Continuous and variable loads/operating load range
0 to 0.04 N/mm²
Peak loads (rare, short-term loads)
0.9 N/mm²



Static modulus of elasticity	Based on EN 826	0.15 - 0.35	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.35 - 0.75	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.22	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	2.3	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.5	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	180	%	
Tear resistance	Based on DIN ISO 34-1	2.1	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	39	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	47	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	69	%	dependent on thickness, test specimen h = 25 mm

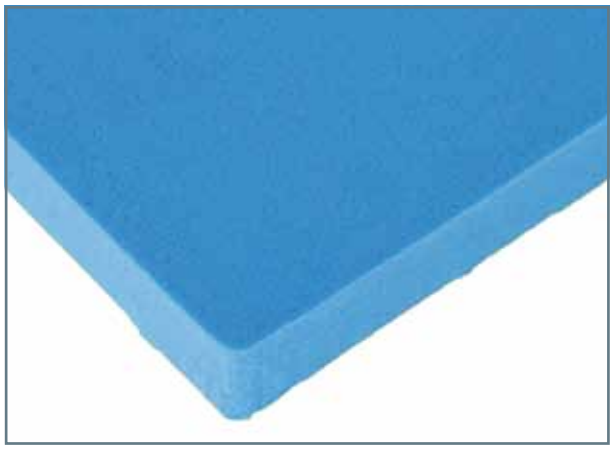
Regufoam® vibration 270 plus

2.4

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.042 N/mm²
Continuous and variable loads/operating load range
0 to 0.062 N/mm²
Peak loads (rare, short-term loads)
1.2 N/mm²



Static modulus of elasticity	Based on EN 826	0.25 - 0.45	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.60 - 1.05	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.2	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.2	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	0.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	4.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.7 0.8	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	63	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	38	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	70	%	dependent on thickness, test specimen h = 25 mm

Standard forms of delivery, ex warehouse
Rolls
Thickness: 12 and 25 mm, special thicknesses on request
Length: 5,000 mm, special lengths available
Width: 1,500 mm

Stripping/Plates
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

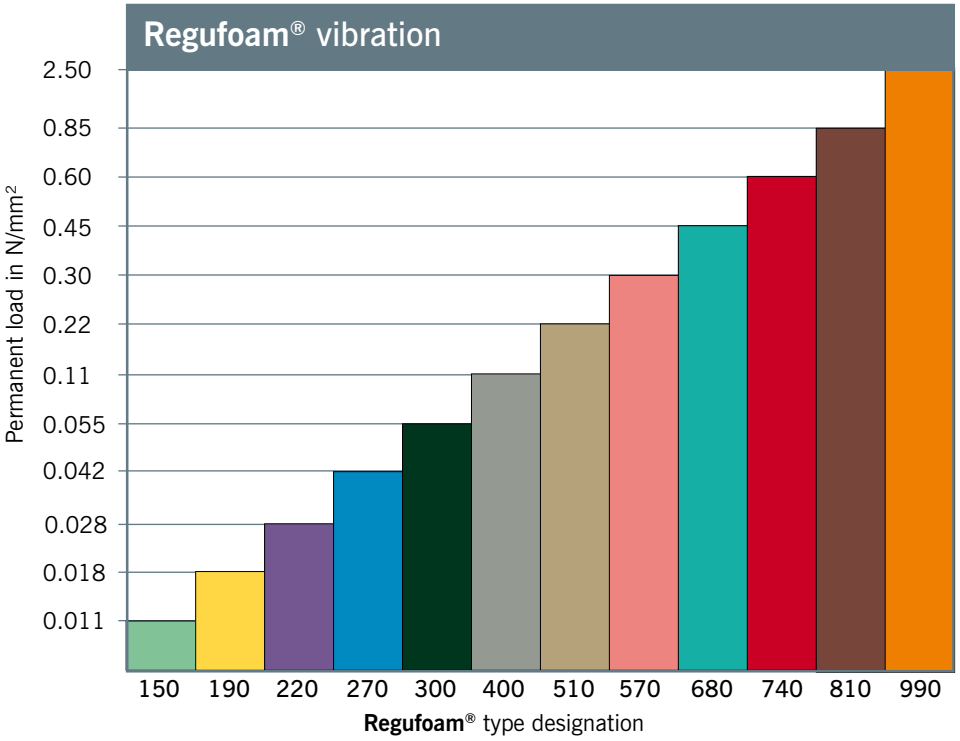
Continuous static load
0.055 N/mm²
Continuous and variable loads/operating load range
0 to 0.08 N/mm²
Peak loads (rare, short-term loads)
2 N/mm²

Static modulus of elasticity	Based on EN 826	0.35 - 0.58	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	0.68 - 1.25	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.18	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	3.4	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	1.2	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	240	%	
Tear resistance	Based on DIN ISO 34-1	4.8	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.75	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	82	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	44	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	72	%	dependent on thickness, test specimen h = 25 mm

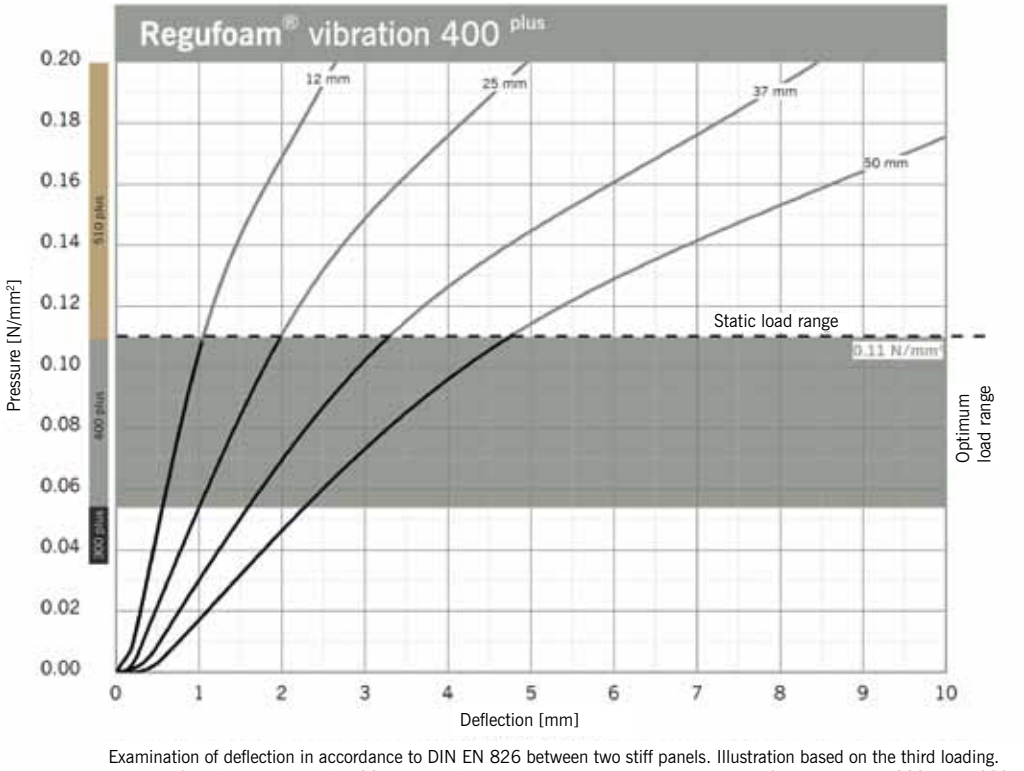
N/mm²
2.50
0.85
0.60
0.45
0.30
0.22
0.11
0.055
0.042
0.028
0.018
0.011
0
990plus
810plus
740plus
680plus
570plus
510plus
400plus
300plus
270plus
220plus
190plus
150plus

N/mm²
2.50
990plus
0.85
810plus
0.60
740plus
0.45
680plus
0.30
570plus
0.22
510plus
0.11
400plus
0.055
300plus
0.042
270plus
0.028
220plus
0.018
190plus
0.011
150plus
0

Load Ranges



Load Deflection



Examination of deflection in accordance to DIN EN 826 between two stiff panels. Illustration based on the third loading. Velocity of loading and unloading 20 seconds. Tested at room temperature. Dimensions of test specimens 300 mm x 300 mm.

Regufoam® vibration 570 plus

2.8

Standard forms of delivery, ex warehouse
Plates
Thickness: 12 and 25 mm, special thicknesses on request
Length: 1,500 mm, special lengths available
Width: 1,000 mm

Stripping/smaller sizes
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.30 N/mm²
Continuous and variable loads/operating load range
0 to 0.42 N/mm²
Peak loads (rare, short-term loads)
up to 4.5 N/mm²

Static modulus of elasticity	Based on EN 826	2.6 - 2.7	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	5.1 - 6.3	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.14	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	4.4	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	2.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	14.1	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	620	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	50	%	dependent on thickness, test specimen h = 25 mm

Regufoam® vibration 680 plus

Standard forms of delivery, ex warehouse
Plates
Thickness: 12 and 25 mm, special thicknesses on request
Length: 1,500 mm, special lengths available
Width: 1,000 mm

Stripping/smaller sizes
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.45 N/mm²
Continuous and variable loads/operating load range
0 to 0.62 N/mm²
Peak loads (rare, short-term loads)
up to 5 N/mm²

Static modulus of elasticity	Based on EN 826	2.0 - 2.9	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	6.8 - 10.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.12	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	6.2	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	3.6	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	230	%	
Tear resistance	Based on DIN ISO 34-1	18.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	840	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	44	%	dependent on thickness, test specimen h = 25 mm

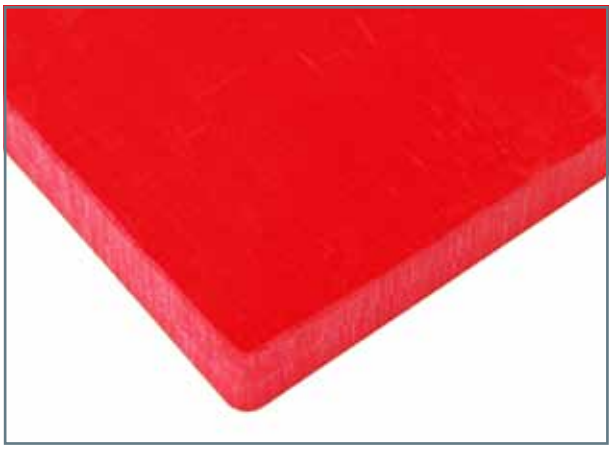
Regufoam® vibration 740 plus

2.10

Standard forms of delivery, ex warehouse
Plates
Thickness: 12 and 25 mm, special thicknesses on request
Length: 1,500 mm, special lengths available
Width: 1,000 mm

Stripping/smaller sizes
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.60 N/mm²
Continuous and variable loads/operating load range
0 to 0.85 N/mm²
Peak loads (rare, short-term loads)
up to 6 N/mm²



Static modulus of elasticity	Based on EN 826	4.3 - 5.9	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	7.9 - 13.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.11	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	4.8	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	4.0	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	210	%	
Tear resistance	Based on DIN ISO 34-1	19.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.7	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1050	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	59	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	39	%	dependent on thickness, test specimen h = 25 mm

Regufoam® vibration 810 plus

2.11

Standard forms of delivery, ex warehouse
Plates
Thickness: 12 and 25 mm, special thicknesses on request
Length: 1,500 mm, special lengths available
Width: 1,000 mm

Stripping/smaller sizes
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
0.85 N/mm²
Continuous and variable loads/operating load range
0 to 1.20 N/mm²
Peak loads (rare, short-term loads)
up to 7 N/mm²

Static modulus of elasticity	Based on EN 826	5.8 - 7.2	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	11.0 - 16.5	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.10	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	7.9	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	4.6	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	230	%	
Tear resistance	Based on DIN ISO 34-1	20.0	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.6 0.75	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	1241	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	58	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	35	%	dependent on thickness, test specimen h = 25 mm

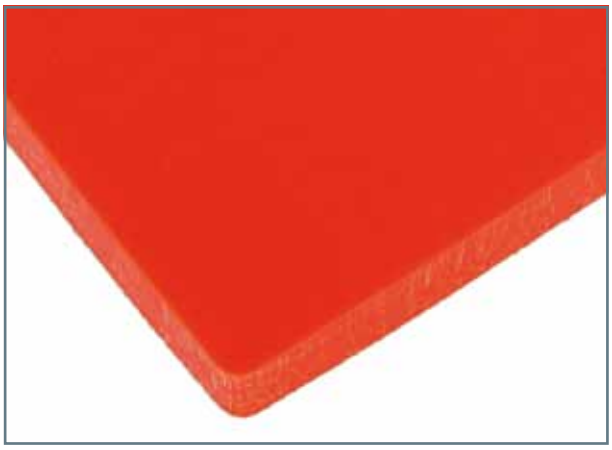
Regufoam® vibration 990 plus

2.12

Standard forms of delivery, ex warehouse
Plates
Thickness: 12 and 25 mm, special thicknesses on request
Length: 1,500 mm, special lengths available
Width: 1,000 mm

Stripping/smaller sizes
On request
Die-cutting, water-jet cutting, self-adhesive versions possible

Continuous static load
2.5 N/mm²
Continuous and variable loads/operating load range
0 to 3.5 N/mm²
Peak loads (rare, short-term loads)
up to 8.0 N/mm²



Static modulus of elasticity	Based on EN 826	20.0 - 78.0	N/mm²	Tangential modulus, see figure “Modulus of elasticity”
Dynamic modulus of elasticity	Based on DIN 53513	41.0 - 160.0	N/mm²	Depending on frequency, load and thickness, see figure “dynamic stiffness“
Mechanical loss factor	DIN 53513	0.09	[-]	Load-, amplitude- and frequency-dependent
Compression set	Based on DIN EN ISO 1856	8.6	%	Measured 30 minutes after decompression with 50% deformation / 23 °C after 72 hrs
Tensile strength	Based on DIN EN ISO 1798	6.9	N/mm²	
Elongation at break	Based on DIN EN ISO 1798	190	%	
Tear resistance	Based on DIN ISO 34-1	34.5	N/mm	
Fire behaviour	DIN 4102 DIN EN 13501	B2 E	[-] [-]	Normal flammability
Sliding friction	BSW-laboratory BSW-laboratory	0.5 0.6	[-] [-]	Steel (dry) Concrete (dry)
Compression hardness	Based on DIN EN ISO 3386-2	3640	kPa	Compressive stress at 25 % deformation test specimen h = 25 mm
Rebound elasticity	Based on DIN EN ISO 8307	55	%	dependent on thickness, test specimen h = 25 mm
Force reduction	DIN EN 14904	20	%	dependent on thickness, test specimen h = 25 mm