



Dynamisk ytelse for spesielle krav

Sylodyn® brukes til vibrasjons- og strukturlydisolering der kravene er svært høye. Materialets ytelse er ekstremt elastisk og det er like "mykt" dynamisk som statisk. Sylodyn®-materialets holdbarhet, kjemiske resistens og lange levetid er andre styrker. Egenskapene er godt dokumenterte, og materialets oppførsel er forutsigbart, noe som gir trygghet og sikre løsninger.

Sylodyn® er et unikt fjærende materiale til applikasjoner med høye krav til vibrasjonsisolering og lave resonansfrekvenser. Sylodyn® kan ofte være det eneste gode alternativet. Materialet løser en rekke problemer innen bygg og anlegg, jernbane og industri.

Sylodyn®-materialet inngår i et komplett produktprogram av høyteknologiske elastomerer av celleoppbygd polyuretan. Programmet inngår, i tillegg til Sylodyn® og Sylomer®, Isotop som er en kombinasjon av fjær og demper, samt Sylodamp som er det dempende materiale.

Fordeler

- Vibrasjonsisolerende
- Ekstremt elastisk - liten krypning
- Høy kjemisk resistens
- Godt dokumentert
- Lang levetid
- Komprimerbar

Leveringsprogram

Bygg og industri

Sylodyn leveres med følgende standard mål:

Tykkelse:	12 og 25 mm (liming ved større tykkelser)
Standardruller:	1500 x 5000 mm
Remser:	1500 mm x ønsket bredde
Plater/Klosser:	ønskede dimensjoner



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BERNER**

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SYLODYN®

OVERVIEW

Product properties

Material	closed-cell PU elastomer (polyurethane) with highly elastic properties
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and moulded parts on request.

Sylodyn® Material type

Material properties	Test methods	NB	NC	ND	NE	NF	HRB HS 3000	HRB HS 6000	HRB HS 12000
Colour		red	yellow	green	blue	violet	dark green	dark blue	dark brown
Static range of use ¹ in N/mm ²		0.075	0.15	0.35	0.75	1.50	3.00	6.00	12.00
Load peaks ¹ in N/mm ²		2.00	3.00	4.20	6.00	6.80	12.00	18.00	24.00
Mechanical loss factor	DIN 53513 ²	0.07	0.07	0.08	0.08	0.09	0.07	0.07	0.08
Rebound resilience in %	EN ISO 8307	70	70	70	70	70	70	70	70
Compression set ³ in %	EN ISO 1856 ²	<5	<5	<5	<5	<5	<5	<5	<5
Static modulus of elasticity ¹ in N/mm ²		0.75	1.13	3.01	6.69	11.99	33.20	74.00	181.00
Dynamic modulus of elasticity ¹ in N/mm ²	DIN 53513 ²	0.85	1.32	3.42	7.54	14.94	49.10	113.80	323.00
Static shear modulus in N/mm ²	DIN ISO 1827 ²	0.12	0.19	0.38	0.69	0.99	2.40	3.50	4.00
Dynamic shear modulus in N/mm ²	DIN ISO 1827 ²	0.17	0.26	0.55	1.02	1.48	2.80	4.20	5.30
Min. tensile stress at rupture in N/mm ²	DIN EN ISO 527-3/5/500 ²	1.00	1.40	2.40	3.90	5.00	12.00	15.00	16.00
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/500 ²	300	300	300	300	300	400	400	400
Abrasion ³ in mm ³	DIN ISO 4649	≤900	≤300	≤500	≤300	≤200	≤100	≤80	≤70
Coefficient of friction (steel)	EN ISO 8295 ²	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
Coefficient of friction (concrete)	EN ISO 8295 ²	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
Coefficient of friction (wood)	EN ISO 8295 ²	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Specific volume resistance in Ω·cm	DIN EN 62631-3-1 ²	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰	>10 ¹⁰
Thermal conductivity in W/mK	DIN EN 12667	0.07	0.08	0.11	0.13	0.15	0.16	0.17	0.19
Temperature range in °C		-30 to 70							
Temperature peak in °C	short term ⁴	120							
Flammability	EN ISO 11925-2	class E/EN 13501							

¹ Values apply to shape factor q=3

² Measurement/evaluation in accordance with the relevant standard

³ The measurement is performed on a density-dependent basis with differing test parameters

⁴ Application-specific

All information and data is based on our current knowledge. The data can be applied for calculations and as guidelines, are subject to typical manufacturing tolerances and are not guaranteed. Material properties as well as their tolerances can vary depending on type of application or use and are available from Getzner on request.

Further information can be found in VDI Guideline 2062 (Association of German Engineers) as well as in glossary. Further characteristic values on request.

DATA SHEET

Product characteristics

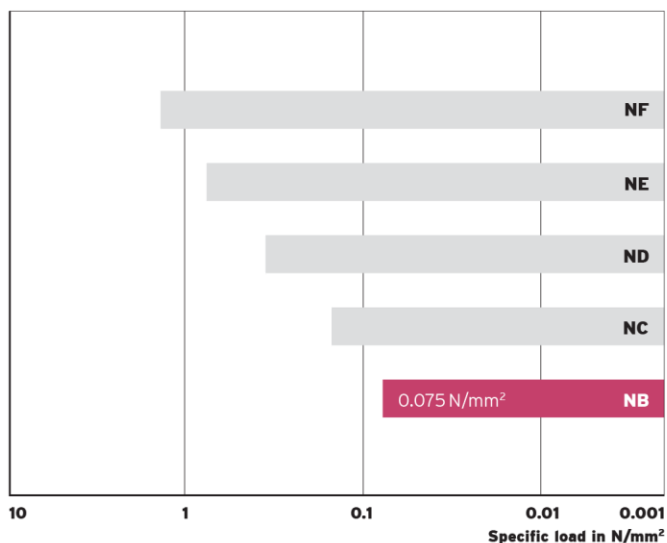
Material	closed-cell PU elastomer (polyurethane)
Colour	red
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and molded parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 0.075 N/mm ²	approx. 8 %
Dynamic range of use (static plus dynamic loads)	up to 0.120 N/mm ²	approx. 18 %
Load peaks (occasional, brief loads)	up to 2.0 N/mm ²	approx. 70 %

Standard Sylodyn® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.07	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	70 %	EN ISO 8307 ¹	
Compression hardness ³	0.09 N/mm ²	EN ISO 844 ¹	at 10 % linear compression, 3 rd load cycle
Compression set ²	< 5 %	EN ISO 1856 ¹	50 % deformation, 23 °C, 72 h, 30 min after removal of load
Static modulus of elasticity ³	0.75 N/mm ²		at specific load of 0.075 N/mm ²
Dynamic modulus of elasticity ³	0.85 N/mm ²	DIN 53513 ¹	at specific load of 0.075 N/mm ² , 10 Hz
Static shear modulus	0.12 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.075 N/mm ²
Dynamic shear modulus	0.17 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.075 N/mm ² , 10 Hz
Min. tensile stress at rupture	1.00 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	300 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 900 mm ³	DIN ISO 4649 ¹	load 5 N
Coefficient of friction (steel)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (wood)	0.5	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	EN IEC 62631-3-1 ¹	dry
Thermal conductivity	0.07 W/(mK)	EN 12667	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement / evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

DATA SHEET

Product characteristics

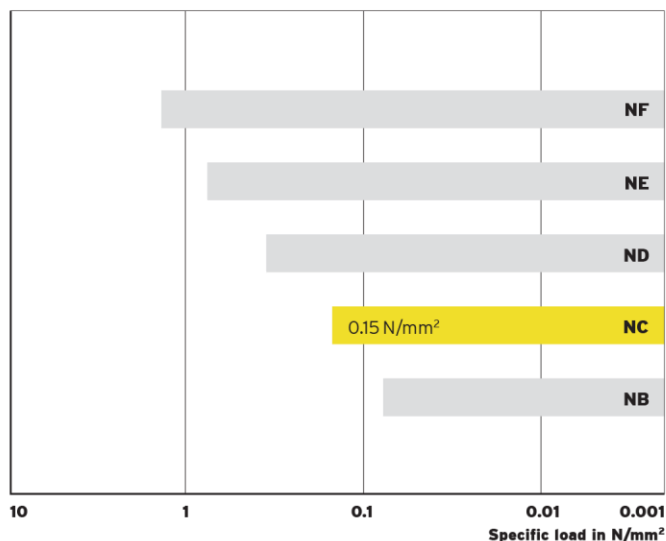
Material	closed-cell PU elastomer (polyurethane)
Colour	yellow
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and molded parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 0.15 N/mm ²	approx. 10 %
Dynamic range of use (static plus dynamic loads)	up to 0.25 N/mm ²	approx. 21 %
Load peaks (occasional, brief loads)	up to 3.0 N/mm ²	approx. 60 %

Standard Sylodyn® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.07	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	70 %	EN ISO 8307 ¹	
Compression hardness ³	0.15 N/mm ²	EN ISO 844 ¹	at 10 % linear compression, 3 rd load cycle
Compression set ²	< 5 %	EN ISO 1856 ¹	50 % deformation, 23 °C, 72 h, 30 min after removal of load
Static modulus of elasticity ³	1.13 N/mm ²		at specific load of 0.15 N/mm ²
Dynamic modulus of elasticity ³	1.32 N/mm ²	DIN 53513 ¹	at specific load of 0.15 N/mm ² , 10 Hz
Static shear modulus	0.19 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.15 N/mm ²
Dynamic shear modulus	0.26 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.15 N/mm ² , 10 Hz
Min. tensile stress at rupture	1.40 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	300 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 300 mm ³	DIN ISO 4649 ¹	load 5 N
Coefficient of friction (steel)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (wood)	0.5	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	EN IEC 62631-3-1 ¹	dry
Thermal conductivity	0.08 W/(mK)	EN 12667	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement / evaluation in accordance with the relevant standard

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³ Values apply to shape factor 3

DATA SHEET

Product characteristics

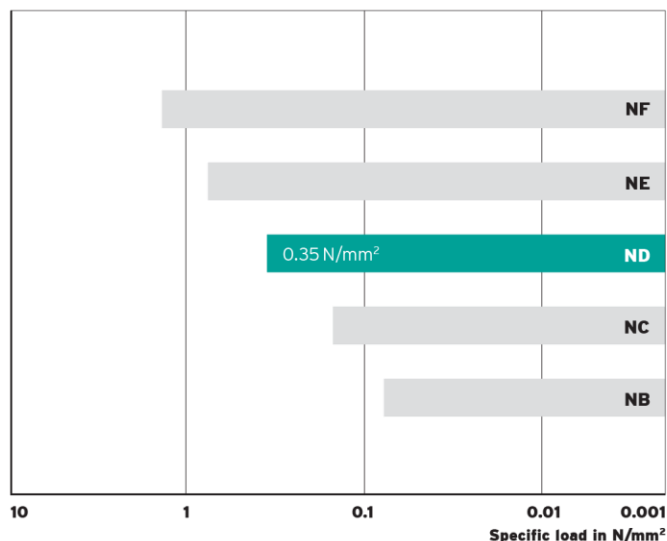
Material	closed-cell PU elastomer (polyurethane)
Colour	green
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and molded parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 0.35 N/mm ²	approx. 10 %
Dynamic range of use (static plus dynamic loads)	up to 0.50 N/mm ²	approx. 17 %
Load peaks (occasional, brief loads)	up to 4.2 N/mm ²	approx. 50 %

Standard Sylodyn® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.08	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	70 %	EN ISO 8307 ¹	
Compression hardness ³	0.34 N/mm ²	EN ISO 844 ¹	at 10 % linear compression, 3 rd load cycle
Compression set ²	< 5 %	EN ISO 1856 ¹	50 % deformation, 23 °C, 72 h, 30 min after removal of load
Static modulus of elasticity ³	3.01 N/mm ²		at specific load of 0.35 N/mm ²
Dynamic modulus of elasticity ³	3.42 N/mm ²	DIN 53513 ¹	at specific load of 0.35 N/mm ² , 10 Hz
Static shear modulus	0.38 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.35 N/mm ²
Dynamic shear modulus	0.55 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.35 N/mm ² , 10 Hz
Min. tensile stress at rupture	2.40 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	300 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 500 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (wood)	0.5	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	EN IEC 62631-3-1 ¹	dry
Thermal conductivity	0.11 W/(mK)	EN 12667	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement / evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

DATA SHEET

Product characteristics

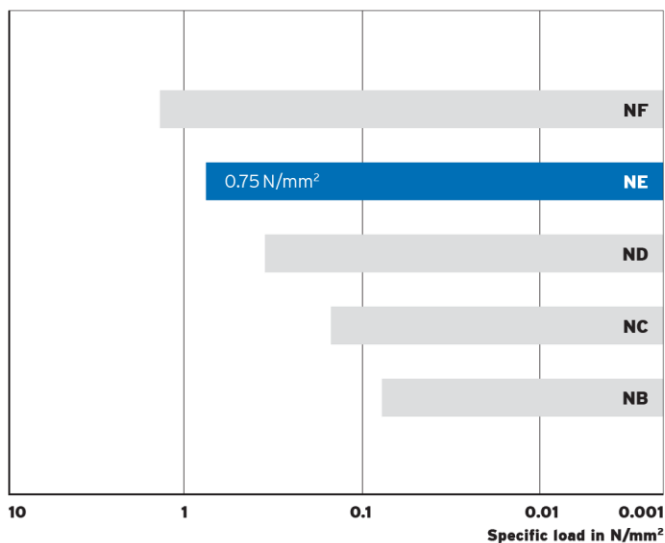
Material	closed-cell PU elastomer (polyurethane)
Colour	blue
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and molded parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 0.75 N/mm ²	approx. 11 %
Dynamic range of use (static plus dynamic loads)	up to 1.20 N/mm ²	approx. 17 %
Load peaks (occasional, brief loads)	up to 6.0 N/mm ²	approx. 40 %

Standard Sylodyn® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.08	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	70 %	EN ISO 8307 ¹	
Compression hardness ³	0.71 N/mm ²	EN ISO 844 ¹	at 10 % linear compression, 3 rd load cycle
Compression set ²	< 5 %	EN ISO 1856 ¹	25 % deformation, 23 °C, 72 h, 30 min after removal of load
Static modulus of elasticity ³	6.69 N/mm ²		at specific load of 0.75 N/mm ²
Dynamic modulus of elasticity ³	7.54 N/mm ²	DIN 53513 ¹	at specific load of 0.75 N/mm ² , 10 Hz
Static shear modulus	0.69 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.75 N/mm ²
Dynamic shear modulus	1.02 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.75 N/mm ² , 10 Hz
Min. tensile stress at rupture	3.90 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	300 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 300 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (wood)	0.5	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	EN IEC 62631-3-1 ¹	dry
Thermal conductivity	0.13 W/(mK)	EN 12667	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement / evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

DATA SHEET

Product characteristics

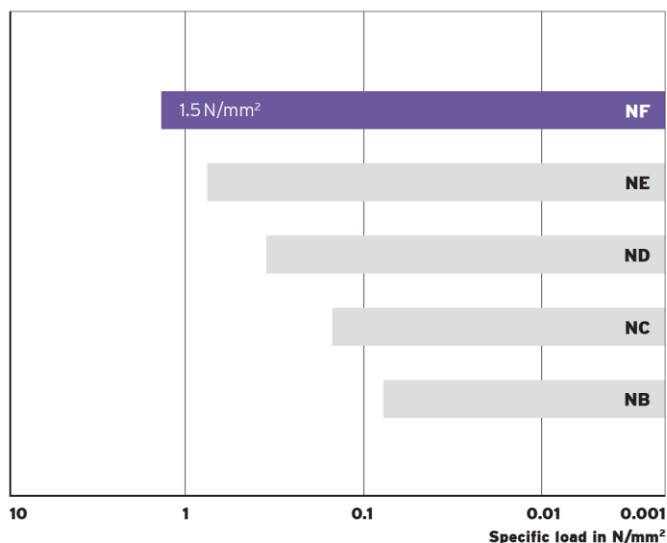
Material	closed-cell PU elastomer (polyurethane)
Colour	violet
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Roll: 1.5 m wide, 5.0 m long
	Strip: up to 1.5 m wide, up to 5.0 m long

Other dimensions, punched and molded parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 1.50 N/mm ²	approx. 11 %
Dynamic range of use (static plus dynamic loads)	up to 2.00 N/mm ²	approx. 16 %
Load peaks (occasional, brief loads)	up to 6.8 N/mm ²	approx. 30 %

Standard Sylodyn® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.09	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	70 %	EN ISO 8307 ¹	
Compression hardness ³	1.34 N/mm ²	EN ISO 844 ¹	at 10 % linear compression, 3 rd load cycle
Compression set ²	< 5 %	EN ISO 1856 ¹	25 % deformation, 23 °C, 72 h, 30 min after removal of load
Static modulus of elasticity ³	11.99 N/mm ²		at specific load of 1.50 N/mm ²
Dynamic modulus of elasticity ³	14.94 N/mm ²	DIN 53513 ¹	at specific load of 1.50 N/mm ² , 10 Hz
Static shear modulus	0.99 N/mm ²	DIN ISO 1827 ¹	at a pretension of 1.50 N/mm ²
Dynamic shear modulus	1.48 N/mm ²	DIN ISO 1827 ¹	at a pretension of 1.50 N/mm ² , 10 Hz
Min. tensile stress at rupture	5.00 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	300 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 200 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (wood)	0.5	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	EN IEC 62631-3-1 ¹	dry
Thermal conductivity	0.15 W/(mK)	EN 12667	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement / evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

SYLODYN® HRB HS 3000

HRB
HS
3000

DATA SHEET

Product characteristics

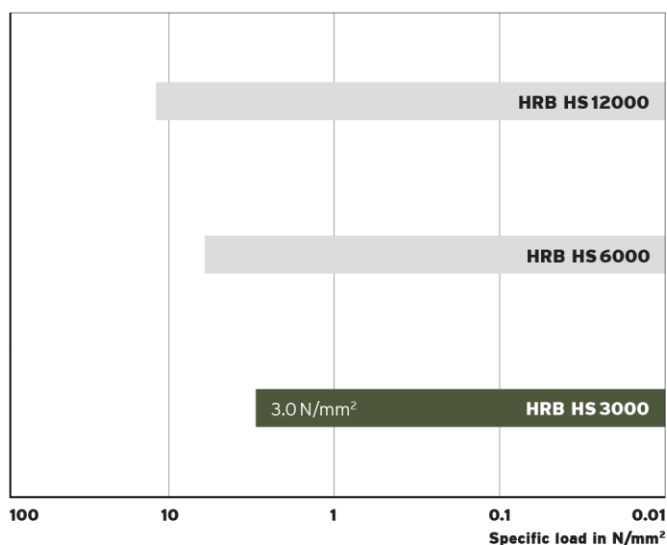
Material	closed-cell PU elastomer (polyurethane)
Colour	dark green
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Mat: 1.2 m wide, 1.5 m long

Other dimensions as well as punched parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 3.0 N/mm ²	approx. 12%
Dynamic range of use (static plus dynamic loads)	up to 4.5 N/mm ²	approx. 16%
Load peaks (occasional, brief loads)	up to 12.0 N/mm ²	approx. 30%

Sylodyn® HRB HS range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.06	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Compression set ²	< 5 %	EN ISO 1856	25 % deformation, 23 °C, 72 h, 30 min after removal of load
Static shear modulus ³	2.4 N/mm ²	DIN ISO 1827 ¹	at a pretension of 3.0 N/mm ²
Dynamic shear modulus ³	2.8 N/mm ²	DIN ISO 1827 ¹	at a pretension of 3.0 N/mm ² , 10 Hz
Coefficient of friction (steel)	0.6	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Thermal conductivity	0.16 W/(mK)	DIN EN 12664	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement/evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

SYLODYN® HRB HS 6000

HRB
HS
6000

DATA SHEET

Product characteristics

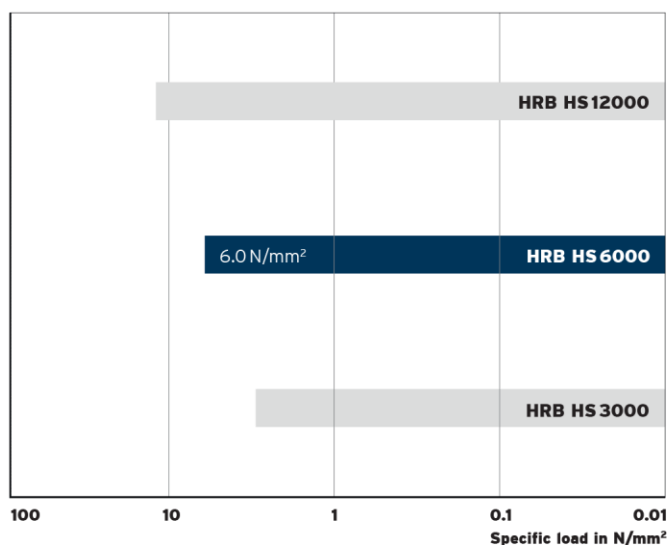
Material	closed-cell PU elastomer (polyurethane)
Colour	dark blue
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Mat: 1.2 m wide, 1.5 m long

Other dimensions as well as punched parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 6.0 N/mm ²	approx. 12 %
Dynamic range of use (static plus dynamic loads)	up to 9.0 N/mm ²	approx. 15 %
Load peaks (occasional, brief loads)	up to 18.0 N/mm ²	approx. 25 %

Sylodyn® HRB HS range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.07	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Compression set ²	< 5 %	EN ISO 1856	25 % deformation, 23 °C, 72 h, 30 min after removal of load
Static shear modulus ³	3.5 N/mm ²	DIN ISO 1827 ¹	at a pretension of 6.0 N/mm ²
Dynamic shear modulus ³	4.2 N/mm ²	DIN ISO 1827 ¹	at a pretension of 6.0 N/mm ² , 10 Hz
Coefficient of friction (steel)	0.6	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Thermal conductivity	0.17 W/(mK)	DIN EN 12664	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

¹ Measurement/evaluation in accordance with the relevant standard

² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3

SYLODYN® HRB HS 12000

HRB
HS
12000

DATA SHEET

Product characteristics

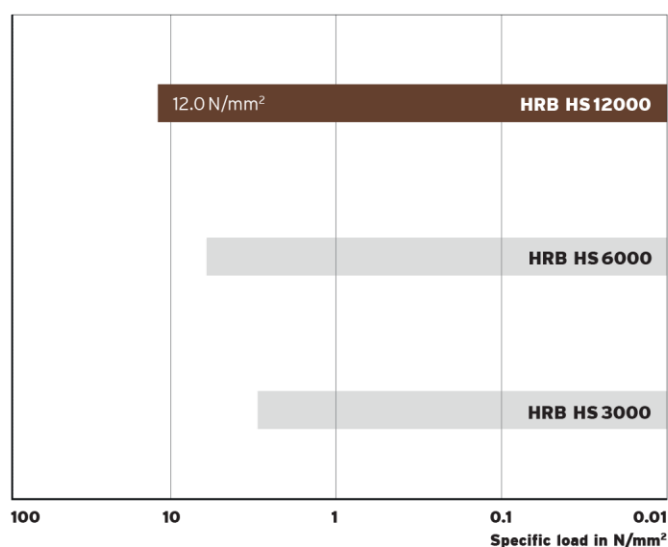
Material	closed-cell PU elastomer (polyurethane)
Colour	dark brown
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Mat: 1.2 m wide, 1.5 m long

Other dimensions as well as punched parts on request.

Range of use	Compressive load	Deformation
	shape factor-dependent, values apply to shape factor 3	
Static range of use (static loads)	up to 12.0 N/mm ²	approx. 8 %
Dynamic range of use (static plus dynamic loads)	up to 16.0 N/mm ²	approx. 10 %
Load peaks (occasional, brief loads)	up to 24.0 N/mm ²	approx. 15 %

Sylodyn® HRB HS range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.08	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Compression set ²	< 5 %	EN ISO 1856	25 % deformation, 23 °C, 72 h, 30 min after removal of load
Static shear modulus ³	4.0 N/mm ²	DIN ISO 1827 ¹	at a pretension of 12.0 N/mm ²
Dynamic shear modulus ³	5.3 N/mm ²	DIN ISO 1827 ¹	at a pretension of 12.0 N/mm ² , 10 Hz
Coefficient of friction (steel)	0.4	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.6	EN ISO 8295 ¹	dry, static friction
Thermal conductivity	0.19 W/(mK)	DIN EN 12664	
Temperature range	-30 °C to 70 °C		short term higher temperatures possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

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² The measurement is performed on a density-dependent basis with differing test parameters

³ Values apply to shape factor 3