

SYLOMER®



Den ideelle kombinasjonen av både fjær og demper

Sylomer® er et avansert polyuretanmateriale (PU) med en balansert kombinasjon av elastisitet og dempingsegenskaper. Takket være denne unike sammensetningen reduserer Sylomer® effektivt vibrasjoner og strukturlyd i alt fra jernbanelinjer til bygninger og maskiner. Sylomer® har en åpen cellestruktur og er svært elastisk; langtidsytelsen er vitenskapelig dokumentert, og materialets effektivitet er grundig testet gjennom flere tiår.

Sylomer®-serien består av et bredt spekter av produkttyper, slik at man alltid kan velge den optimale løsningen for den aktuelle belastningen – uansett hvor krevende de tekniske forholdene er.

For sikkerhetskritiske bruksområder finnes den flammehemmende varianten Sylomer® FR, som oppfyller den høyeste brannklassifiseringen HL3 (Hazard Level 3) i henhold til EN 45545-2.

Fordeler

- Fjærende og dempende
- Høy kjemisk resistens
- Lang levetid
- Godt dokumentert

Leveringsprogram

Bygg og industri

Sylomer leveres med følgende standarddimensjoner:

Tykkelse:	12 og 25 mm (liming ved større tykkelser)
Standardruller:	1500 x 5000 mm
Med slitesjikt:	1450 x 5000 mm
Remser:	1500 mm x ønsket bredde
Plater/Klosser:	Ønskede dimensjoner




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OVERVIEW

Product properties

Material	mixed-cell PU elastomer (polyurethane) with combined spring and dampening 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.

Sylomer® Material type

Material properties	Test methods	SR 11	SR 18	SR 28	SR 42	SR 55	SR 110	SR 220	SR 450	SR 850	SR 1200
Colour		yellow	orange	blue	pink	green	brown	red	grey	turquoise	wined
Static range of use ¹ in N/mm ²		0.011	0.018	0.028	0.042	0.055	0.110	0.220	0.450	0.850	1.200
Load peaks ¹ in N/mm ²		0.50	0.75	1.00	2.00	2.00	3.00	4.00	5.00	6.00	6.00
Mechanical loss factor	DIN 53513 ²	0.25	0.23	0.21	0.18	0.17	0.14	0.13	0.12	0.11	0.11
Rebound resilience in %	EN ISO 8307	40	40	45	55	55	55	55	60	60	60
Compression set ³ in %	EN ISO 1856 ²	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Static modulus of elasticity ¹ in N/mm ²		0.06	0.08	0.13	0.22	0.34	0.83	1.47	3.36	7.23	9.37
Dynamic modulus of elasticity ¹ in N/mm ²	DIN 53513 ²	0.20	0.29	0.42	0.60	0.75	1.52	2.58	5.42	11.08	15.62
Static shear modulus in N/mm ²	DIN ISO 1827 ²	0.04	0.06	0.07	0.09	0.11	0.22	0.38	0.58	0.84	0.94
Dynamic shear modulus in N/mm ²	DIN ISO 1827 ²	0.10	0.12	0.14	0.17	0.20	0.34	0.57	0.82	1.15	1.28
Min. tensile stress at rupture in N/mm ²	DIN EN ISO 527-3/5/500 ²	0.30	0.35	0.40	0.50	0.55	0.85	1.20	1.70	2.30	2.50
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/500 ²	250	230	200	190	190	180	170	160	150	150
Abrasion ³ in mm ³	DIN ISO 4649	≤1,400	≤400	≤1,300	≤1,200	≤1,100	≤1,100	≤1,000	≤400	≤300	≤350
Coefficient of friction (steel)	Getzner Werkstoffe	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Coefficient of friction (concrete)	Getzner Werkstoffe	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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	>10 ¹⁰	>10 ¹⁰
Thermal conductivity in W/mK	DIN EN 12667	0.045	0.050	0.050	0.055	0.060	0.075	0.090	0.110	0.130	0.140
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									

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.

SYLOMER® SR 11

SR
11

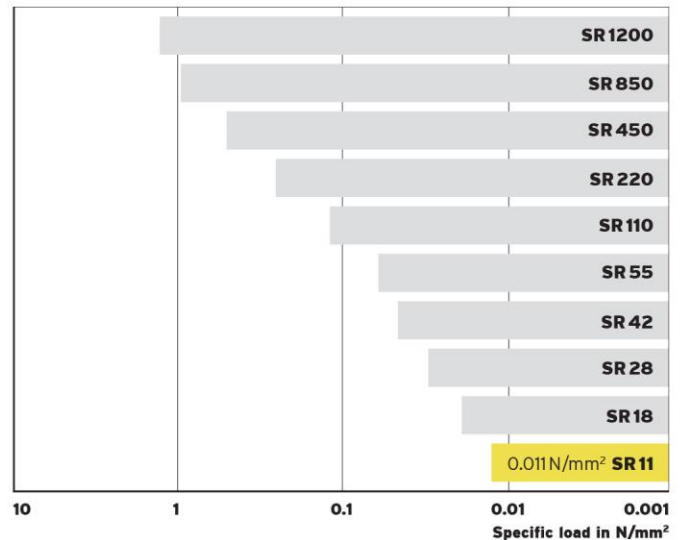
DATA SHEET

Product characteristics

Material	mixed-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 0.011 N/mm ²	approx. 7 %
Dynamic range of use (static plus dynamic loads)	up to 0.016 N/mm ²	approx. 22 %
Load peaks (occasional, brief loads)	up to 0.5 N/mm ²	approx. 80 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.25	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	40 %	EN ISO 8307 ¹	
Compression hardness ³	0.01 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	0.06 N/mm ²		at specific load of 0.011 N/mm ²
Dynamic modulus of elasticity ³	0.20 N/mm ²	DIN 53513 ¹	at specific load of 0.011 N/mm ² , 10 Hz
Static shear modulus	0.04 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.011 N/mm ²
Dynamic shear modulus	0.10 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.011 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.30 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	250 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,400 mm ³	DIN ISO 4649 ¹	load 2.5 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.045 W/(mK)	DIN 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



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SYLOMER® SR 18

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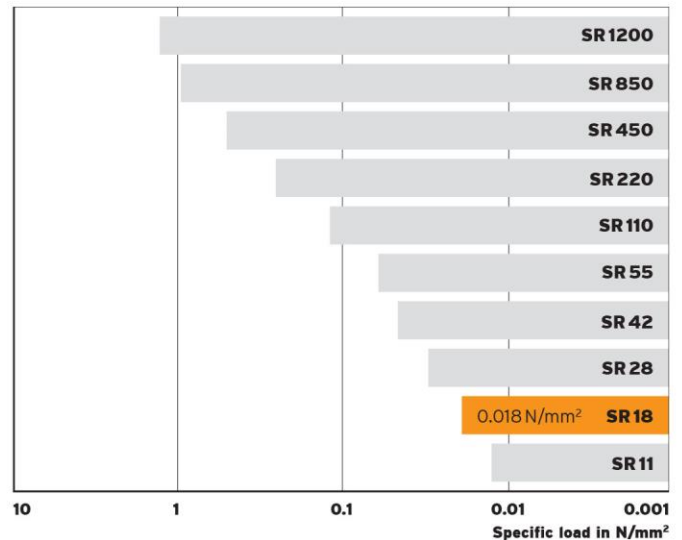
DATA SHEET

Product characteristics

Material	mixed-cell PU elastomer (polyurethane)	
Colour	orange	
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 0.018 N/mm ²	approx. 7 %
Dynamic range of use (static plus dynamic loads)	up to 0.023 N/mm ²	approx. 18 %
Load peaks (occasional, brief loads)	up to 0.75 N/mm ²	approx. 80 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.23	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	40 %	EN ISO 8307 ¹	
Compression hardness ³	0.02 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	0.08 N/mm ²		at specific load of 0.018 N/mm ²
Dynamic modulus of elasticity ³	0.29 N/mm ²	DIN 53513 ¹	at specific load of 0.018 N/mm ² , 10 Hz
Static shear modulus	0.06 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.018 N/mm ²
Dynamic shear modulus	0.12 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.018 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.35 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	230 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 400 mm ³	DIN ISO 4649 ¹	load 2.5 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.05 W/(mK)	DIN 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



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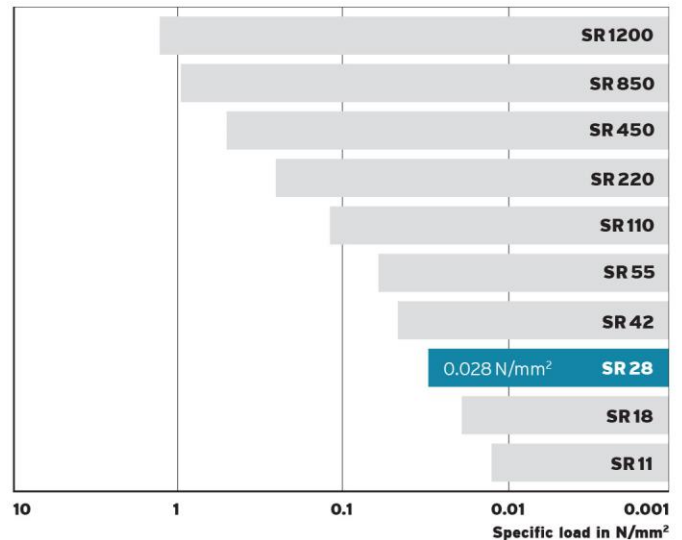
DATA SHEET

Product characteristics

Material	mixed-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 0.028 N/mm ²	approx. 7 %
Dynamic range of use (static plus dynamic loads)	up to 0.037 N/mm ²	approx. 20 %
Load peaks (occasional, brief loads)	up to 1.0 N/mm ²	approx. 75 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.21	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	45 %	EN ISO 8307 ¹	
Compression hardness ³	0.03 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	0.13 N/mm ²		at specific load of 0.028 N/mm ²
Dynamic modulus of elasticity ³	0.42 N/mm ²	DIN 53513 ¹	at specific load of 0.028 N/mm ² , 10 Hz
Static shear modulus	0.07 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.028 N/mm ²
Dynamic shear modulus	0.14 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.028 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.40 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	200 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,300 mm ³	DIN ISO 4649 ¹	load 5 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.05 W/(mK)	DIN 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

SYLOMER® SR 42

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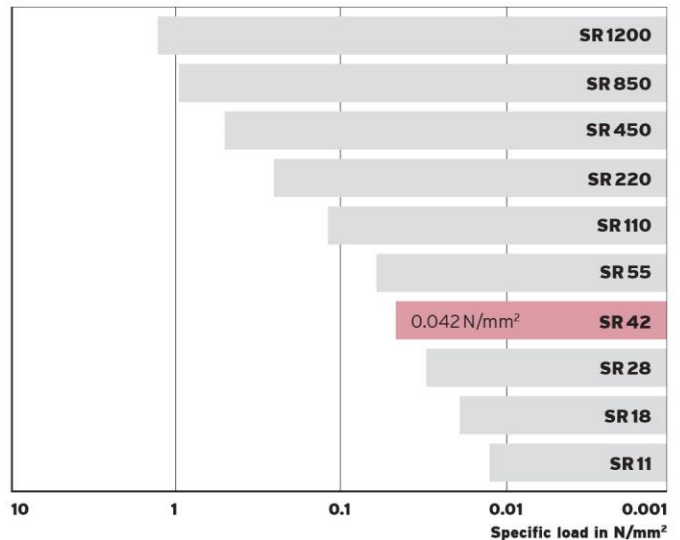
DATA SHEET

Product characteristics

Material	mixed-cell PU elastomer (polyurethane)	
Colour	pink	
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 0.042 N/mm ²	approx. 8 %
Dynamic range of use (static plus dynamic loads)	up to 0.057 N/mm ²	approx. 20 %
Load peaks (occasional, brief loads)	up to 2.0 N/mm ²	approx. 75 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.18	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	55 %	EN ISO 8307 ¹	
Compression hardness ³	0.05 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	0.22 N/mm ²		at specific load of 0.042 N/mm ²
Dynamic modulus of elasticity ³	0.60 N/mm ²	DIN 53513 ¹	at specific load of 0.042 N/mm ² , 10 Hz
Static shear modulus	0.09 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.042 N/mm ²
Dynamic shear modulus	0.17 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.042 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.50 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	190 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,200 mm ³	DIN ISO 4649 ¹	load 7.5 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.055 W/(mK)	DIN 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



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SYLOMER® SR 55

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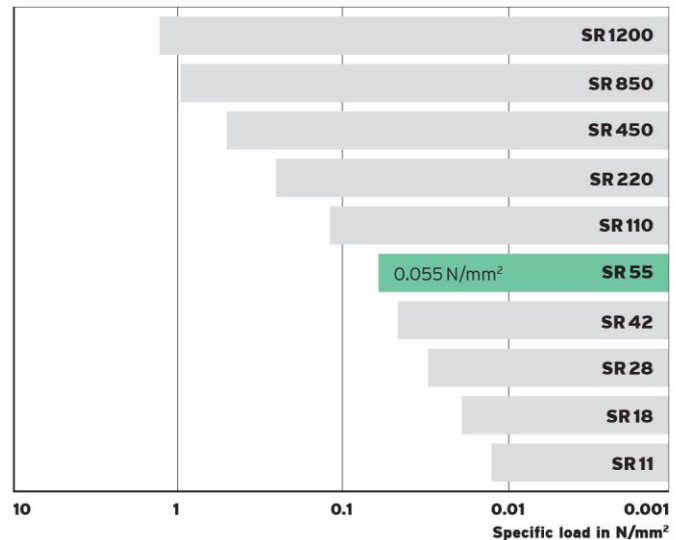
DATA SHEET

Product characteristics

Material	mixed-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 0.055 N/mm ²	approx. 8 %
Dynamic range of use (static plus dynamic loads)	up to 0.076 N/mm ²	approx. 19 %
Load peaks (occasional, brief loads)	up to 2.0 N/mm ²	approx. 75 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.17	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resilience	55 %	EN ISO 8307 ¹	
Compression hardness ³	0.06 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	0.34 N/mm ²		at specific load of 0.055 N/mm ²
Dynamic modulus of elasticity ³	0.75 N/mm ²	DIN 53513 ¹	at specific load of 0.055 N/mm ² , 10 Hz
Static shear modulus	0.11 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.055 N/mm ²
Dynamic shear modulus	0.20 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.055 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.55 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	190 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,100 mm ³	DIN ISO 4649 ¹	load 7.5 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.06 W/(mK)	DIN 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



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DATA SHEET

Product characteristics

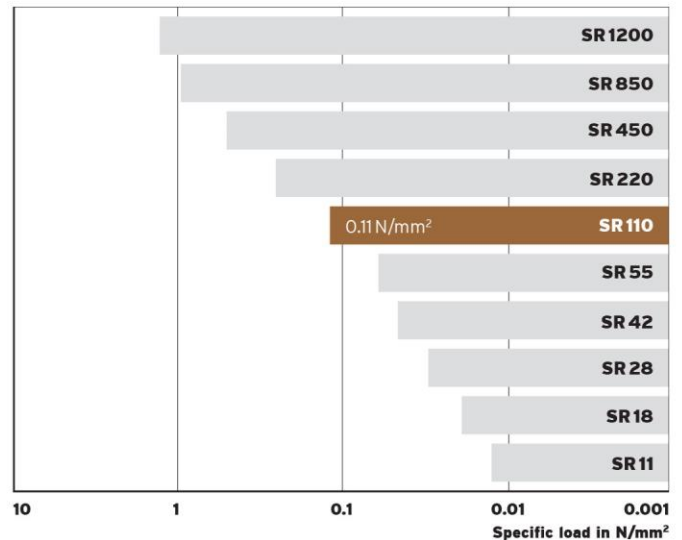
Material	mixed-cell PU elastomer (polyurethane)
Colour	brown
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Roll: 1.5 m wide, 5.0 m long Strip: up to 1.5 m wide, up to 5.0 m long

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 0.110 N/mm ²	approx. 8 %
Dynamic range of use (static plus dynamic loads)	up to 0.160 N/mm ²	approx. 17 %
Load peaks (occasional, brief loads)	up to 3.0 N/mm ²	approx. 70 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.14	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	55 %	EN ISO 8307 ¹	
Compression hardness ³	0.12 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	0.83 N/mm ²		at specific load of 0.11 N/mm ²
Dynamic modulus of elasticity ³	1.52 N/mm ²	DIN 53513 ¹	at specific load of 0.11 N/mm ² , 10 Hz
Static shear modulus	0.22 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.11 N/mm ²
Dynamic shear modulus	0.34 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.11 N/mm ² , 10 Hz
Min. tensile stress at rupture	0.85 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	180 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,100 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.075 W/(mK)	DIN 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



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SYLOMER® SR 220

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DATA SHEET

Product characteristics

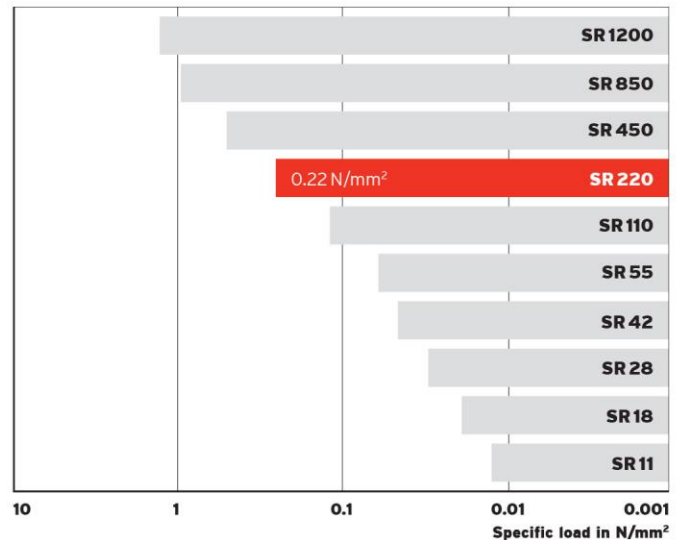
Material	mixed-cell PU elastomer (polyurethane)
Colour	red
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Roll: 1.5 m wide, 5.0 m long Strip: max 1.5 m wide, up to 5.0 m long

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 0.22 N/mm ²	approx. 10 %
Dynamic range of use (static plus dynamic loads)	up to 0.35 N/mm ²	approx. 20 %
Load peaks (occasional, brief loads)	up to 4.0 N/mm ²	approx. 65 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.13	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	55 %	EN ISO 8307 ¹	
Compression hardness ³	0.22 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	1.47 N/mm ²		at specific load of 0.22 N/mm ²
Dynamic modulus of elasticity ³	2.58 N/mm ²	DIN 53513 ¹	at specific load of 0.22 N/mm ² , 10 Hz
Static shear modulus	0.38 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.22 N/mm ²
Dynamic shear modulus	0.57 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.22 N/mm ² , 10 Hz
Min. tensile stress at rupture	1.20 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	170 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 1,000 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.09 W/(mK)	DIN 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



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SYLOMER® SR 450

SR
450

DATA SHEET

Product characteristics

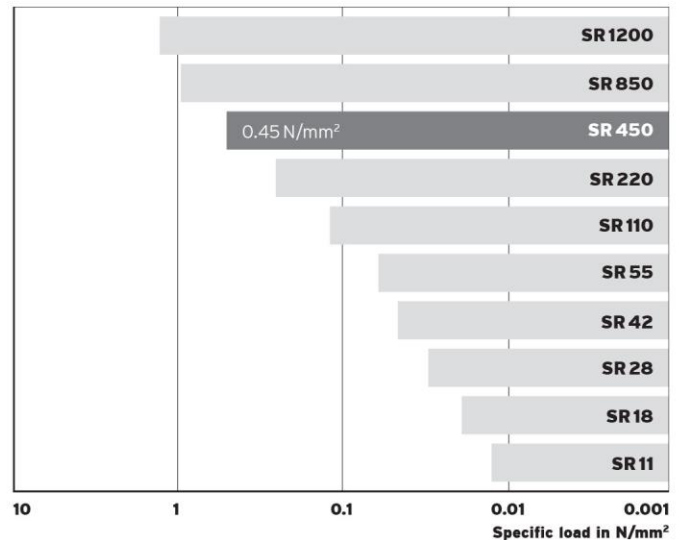
Material	mixed-cell PU elastomer (polyurethane)
Colour	grey
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Roll: 1.5 m wide, 5.0 m long Strip: up to 1.5 m wide, up to 5.0 m long

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 0.45 N/mm ²	approx. 10 %
Dynamic range of use (static plus dynamic loads)	up to 0.70 N/mm ²	approx. 19 %
Load peaks (occasional, brief loads)	up to 5.0 N/mm ²	approx. 60 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.12	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	60 %	EN ISO 8307 ¹	
Compression hardness ³	0.43 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	3.36 N/mm ²		at specific load of 0.45 N/mm ²
Dynamic modulus of elasticity ³	5.42 N/mm ²	DIN 53513 ¹	at specific load of 0.45 N/mm ² , 10 Hz
Static shear modulus	0.58 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.45 N/mm ²
Dynamic shear modulus	0.82 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.45 N/mm ² , 10 Hz
Min. tensile stress at rupture	1.70 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	160 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 400 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.11 W/(mK)	DIN 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



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DATA SHEET

Product characteristics

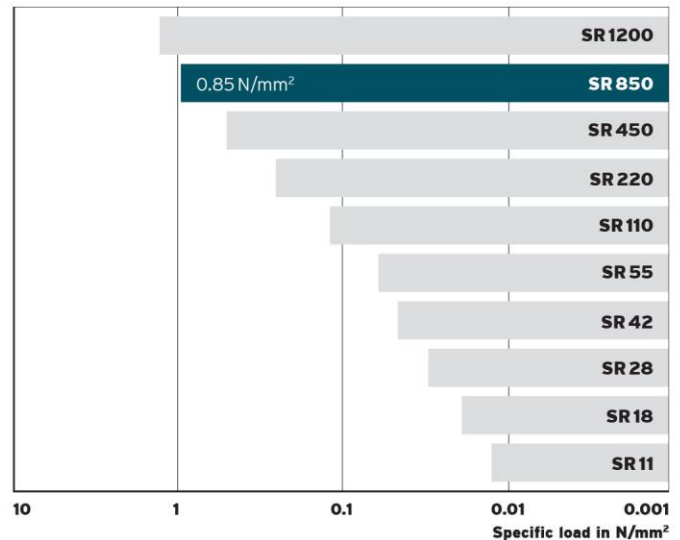
Material	mixed-cell PU elastomer (polyurethane)
Colour	turquoise
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Roll: 1.5 m wide, 5.0 m long Strip: up to 1.5 m wide, up to 5.0 m long

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 0.85 N/mm ²	approx. 10 %
Dynamic range of use (static plus dynamic loads)	up to 1.3 N/mm ²	approx. 16 %
Load peaks (occasional, brief loads)	up to 6.0 N/mm ²	approx. 45 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.11	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	60 %	EN ISO 8307 ¹	
Compression hardness ³	0.85 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	7.23 N/mm ²		at specific load of 0.85 N/mm ²
Dynamic modulus of elasticity ³	11.08 N/mm ²	DIN 53513 ¹	at specific load of 0.85 N/mm ² , 10 Hz
Static shear modulus	0.84 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.85 N/mm ²
Dynamic shear modulus	1.15 N/mm ²	DIN ISO 1827 ¹	at a pretension of 0.85 N/mm ² , 10 Hz
Min. tensile stress at rupture	2.30 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	150 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 300 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.13 W/(mK)	DIN 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

SYLOMER® SR 1200

SR
1200

DATA SHEET

Product characteristics

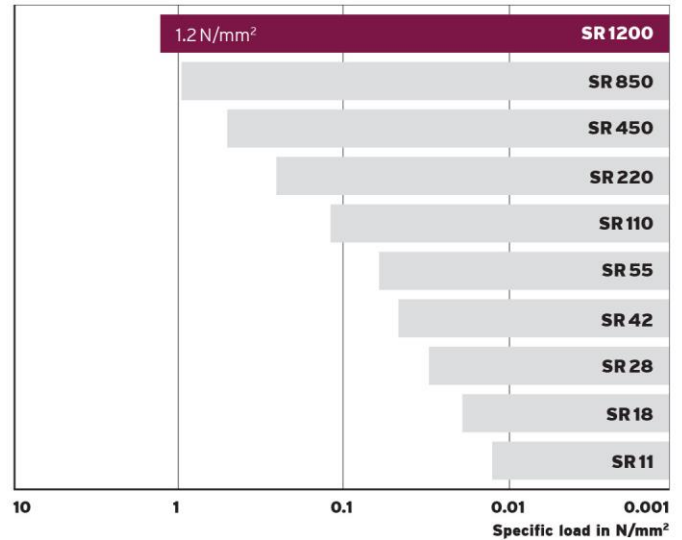
Material	mixed-cell PU elastomer (polyurethane)
Colour	winered
Standard delivery dimension	Thickness: 12.5 mm / 25 mm Roll: 1.5 m wide, 5.0 m long Strip: up to 1.5 m wide, up to 5.0 m long

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 1.2 N/mm ²	approx. 11 %
Dynamic range of use (static plus dynamic loads)	up to 1.8 N/mm ²	approx. 17 %
Load peaks (occasional, brief loads)	up to 6.0 N/mm ²	approx. 35 %

Standard Sylomer® range

Static range of use



Material properties		Test methods	Comment
Mechanical loss factor	0.11	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Rebound resiliency	60 %	EN ISO 8307 ¹	
Compression hardness ³	1.08 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	9.37 N/mm ²		at specific load of 1.2 N/mm ²
Dynamic modulus of elasticity ³	15.62 N/mm ²	DIN 53513 ¹	at specific load of 1.2 N/mm ² , 10 Hz
Static shear modulus	0.94 N/mm ²	DIN ISO 1827 ¹	at a pretension of 1.2 N/mm ²
Dynamic shear modulus	1.28 N/mm ²	DIN ISO 1827 ¹	at a pretension of 1.2 N/mm ² , 10 Hz
Min. tensile stress at rupture	2.50 N/mm ²	EN ISO 527-3/5/500 ¹	
Min. tensile elongation at rupture	150 %	EN ISO 527-3/5/500 ¹	
Abrasion ²	≤ 350 mm ³	DIN ISO 4649 ¹	load 10 N
Coefficient of friction (steel)	0.5	EN ISO 8295 ¹	dry, static friction
Coefficient of friction (concrete)	0.7	EN ISO 8295 ¹	dry, static friction
Specific volume resistance	> 10 ¹⁰ Ω·cm	DIN EN 62631-3-1 ¹	dry
Thermal conductivity	0.14 W/(mK)	DIN 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

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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