

# Overview Sylomer®



## Material:

mixed cell polyurethane (PUR) with combined spring and dampening properties

## Standard delivery specifications:

Thickness: 12.5 mm / 25 mm

Rolls: 1.5 m wide, 5.0 m long

Strips: up to 1.5 m wide, up to 5.0 m long

Other dimensions (including thickness), stamped components and moulded components available on request.

## Material type:



Properties	Test procedures	SR 11	SR 18	SR 28	SR 42	SR 55	SR 110	SR 220	SR 450	SR 850	SR 1200
Color		yellow	orange	blue	pink	green	brown	red	grey	turquoise	violet
Static range of use [N/mm <sup>2</sup> ]**		0.011	0.018	0.028	0.042	0.055	0.110	0.220	0.450	0.850	1.200
Load peaks [N/mm <sup>2</sup> ]**		0.5	0.75	1.0	2.0	2.0	3.0	4.0	5.0	6.0	6.0
Mechanical loss factor	DIN 53513*	0.25	0.23	0.21	0.16	0.17	0.13	0.13	0.11	0.12	0.09
Static shear modulus [N/mm <sup>2</sup> ]	DIN ISO 1827*	0.03	0.05	0.07	0.08	0.13	0.22	0.35	0.58	0.8	0.9
Dynamic shear modulus [N/mm <sup>2</sup> ]	DIN ISO 1827*	0.1	0.12	0.15	0.17	0.26	0.42	0.64	1.0	1.4	1.6
Abrasion [mm <sup>3</sup> ]**	DIN 53516	1400	400	1300	1200	1100	1100	1000	400	300	350
Static E-modulus [N/mm <sup>2</sup> ] (at the upper limit of the static range of use)**	DIN 53513*	0.061	0.097	0.166	0.282	0.367	0.87	1.44	3.30	7.2	10.4
Dynamic E-modulus [N/mm <sup>2</sup> ] (at the upper limit of the static range of use)**	DIN 53513*	0.172	0.280	0.437	0.611	0.753	1.36	2.54	5.04	11.1	16.4
Resistance to strain at 10 % deformation [N/mm <sup>2</sup> ]		0.012	0.020	0.031	0.047	0.061	0.12	0.22	0.42	0.86	1.08
Operating temperature [°C]		-30 to +70									
Temperature peak [°C]	short term****	+120									
Inflammability	DIN 4102 EN ISO 11925-2	B 2 B, C and D									

- \* Measurement procedure similar to the relevant standard
- \*\* Data valid for a form factor of q=3, material thickness 25 mm
- \*\*\* Measurement of abrasion depends on density with varying testing parameters
- \*\*\*\* Depending on application

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. We reserve the right to amend the data.

Data sheets on the various material types and special specifications available on request.