

Overview Sylodyn®

Material

Closed cellular polyurethane (PUR) with highly elastic 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, punched and moulded parts on request.

Sylodyn® Material type

NB

NC

ND

NE

NF

**HRB HS
3000**

**HRB HS
6000**

Properties	Test procedures	NB	NC	ND	NE	NF	HRB HS 3000	HRB HS 6000
Color		red	yellow	green	blue	violet	dark green	dark blue
Static range of use ¹ in N/mm ²		0.075	0.150	0.350	0.750	1.500	3.000	6.000
Load peaks ¹ in N/mm ²		2.00	3.00	4.00	6.00	8.00	12.00	18.00
Mechanical loss factor	DIN 53513 ²	0.07	0.07	0.08	0.09	0.10	0.07	0.07
Rebound elasticity in %	EN ISO 8307	70	70	70	70	70	70	70
Compression set ³ in %	EN ISO 1856	<5	<5	<5	<5	<5	<5	<5
Static modulus of elasticity ¹ in N/mm ²		0.75	1.10	2.55	6.55	11.80	33.20	74.00
Dynamic modulus of elasticity ¹ in N/mm ²	DIN 53513 ²	0.90	1.45	3.35	7.70	15.20	49.10	113.80
Static shear modulus ¹ in N/mm ²	DIN ISO 1827 ²	0.13	0.21	0.35	0.61	0.80	2.40	3.50
Dynamic shear modulus ¹ in N/mm ²	DIN ISO 1827 ²	0.18	0.29	0.53	0.86	1.18	2.80	4.20
Min. tensile stress at rupture in N/mm ²	DIN EN ISO 527-3/5/100 ²	0.75	1.50	2.50	4.00	7.00	12.00	15.00
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/100 ²	450	500	500	500	500	400	400
Abrasion ³ in mm ³	DIN EN ISO 4649	1,400	550	100	80	90	100	80
Coefficient of friction (steel)	Getzner Werkstoffe	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7
Coefficient of friction (concrete)	Getzner Werkstoffe	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7
Specific volume resistance in Ω·cm	DIN IEC 60093	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹⁰	>10 ¹⁰
Thermal conductivity in W/mK	DIN EN 12667	0.070	0.085	0.110	0.135	0.150	0.155	0.160
Operating temperature in °C		-30 to 70						
Temperature peak in °C	short term ⁴	120						
Flammability	EN ISO 11925-2	class E/EN 13501-1						

¹ Data valid for a form factor of q=3

² Tests according to respective standards

³ Testing parameters vary depending on density

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. We reserve the right to amend the data.

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