

# Overview Sylodyn®



## 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 <sup>1</sup> in N/mm <sup>2</sup>		0.075	0.150	0.350	0.750	1.500	3.000	6.000	12.000
Load peaks <sup>1</sup> in N/mm <sup>2</sup>		2.00	3.00	4.00	6.00	8.00	12.00	18.00	24.00
Mechanical loss factor	DIN 53513 <sup>2</sup>	0.07	0.07	0.08	0.09	0.10	0.07	0.07	0.08
Rebound resilience in %	EN ISO 8307	70	70	70	70	70	70	70	70
Compression set <sup>3</sup> in %	EN ISO 1856 <sup>2</sup>	<5	<5	<5	<5	<5	<5	<5	<5
Static modulus of elasticity <sup>1</sup> in N/mm <sup>2</sup>		0.75	1.10	2.55	6.55	11.80	33.20	74.00	181.00
Dynamic modulus of elasticity <sup>1</sup> in N/mm <sup>2</sup>	DIN 53513 <sup>2</sup>	0.90	1.45	3.35	7.70	15.20	49.10	113.80	323.00
Static shear modulus in N/mm <sup>2</sup>	DIN ISO 1827 <sup>2</sup>	0.13	0.21	0.35	0.61	0.80	2.40	3.50	4.00
Dynamic shear modulus in N/mm <sup>2</sup>	DIN ISO 1827 <sup>2</sup>	0.18	0.29	0.53	0.86	1.18	2.80	4.20	5.30
Min. tensile stress at rupture in N/mm <sup>2</sup>	DIN EN ISO 527-3/5/100 <sup>2</sup>	0.75	1.50	2.50	4.00	7.00	12.00	15.00	16.00
Min. tensile elongation at rupture in %	DIN EN ISO 527-3/5/100 <sup>2</sup>	450	500	500	500	500	400	400	400
Abrasion <sup>3</sup> in mm <sup>3</sup>	DIN EN ISO 4649	≤1,400	≤550	≤100	≤80	≤90	≤100	≤80	≤70
Coefficient of friction (steel)	Getzner Werkstoffe	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
Coefficient of friction (concrete)	Getzner Werkstoffe	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
Specific volume resistance in Ω·cm	DIN EN 62631-3-1 <sup>2</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>	>10 <sup>10</sup>
Thermal conductivity in W/mK	DIN EN 12667	0.060	0.075	0.090	0.100	0.110	0.160	0.170	0.190
Temperature range in °C		-30 to 70							
Temperature peak in °C	short term <sup>4</sup>	120							
Flammability	EN ISO 11925-2	class E/EN 13501-1							

<sup>1</sup> Values apply to shape factor q=3  
<sup>2</sup> Measurement/evaluation in accordance with the relevant standard  
<sup>3</sup> The measurement is performed on a density-dependent basis with differing test parameters  
<sup>4</sup> 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.

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