

Overview Sylodyn®



AUSTRIA – Bürs GERMANY – Berlin – Munich – Stuttgart FRANCE
 JAPAN – Tokyo INDIA – Pune CHINA – Beijing USA – Charlotte

Material

Closed cell 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 (including thickness) stamped components and moulded components available on request.

Sylodyn® Material type



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 [N/mm ²]**		0.075	0.150	0.350	0.750	1.500	3.000	6.000
Load peaks [N/mm ²]**		2.00	3.00	4.00	6.00	8.00	12.00	18.00
Mechanical loss factor	DIN 53513*	0.07	0.07	0.08	0.09	0.10	0.07	0.07
Static shear modulus [N/mm ²] (at the upper limit of the static range of use)**	DIN ISO 1827*	0.13	0.21	0.35	0.61	0.80	2.40	3.50
Dynamic shear modulus [N/mm ²] (at the upper limit of the static range of use)**	DIN ISO 1827*	0.18	0.29	0.53	0.86	1.18	2.80	4.20
Min. tensile stress at rupture [N/mm ²]	DIN EN ISO 527-3/5/100*	0.75	1.50	2.50	4.00	7.00	12.00	15.00
Min. tensile elongation at rupture [%]	DIN EN ISO 527-3/5/100*	450	500	500	500	500	400	400
Abrasion [mm ³]***	DIN EN ISO 4649	1,400	550	100	80	90	100	80
Residual compression set [%]****	EN ISO 1856	<5	<5	<5	<5	<5	<5	<5
Static E-modulus [N/mm ²] (at the upper limit of the static range of use)**		0.75	1.10	2.55	6.55	11.80	33.20	54.30
Dynamic E-modulus [N/mm ²] (at the upper limit of the static range of use)**	DIN 53513*	0.90	1.45	3.35	7.70	15.20	49.10	71.50
Resistance to strain at 10 % deformation [N/mm ²]	DIN ISO 844*	0.09	0.15	0.35	0.70	1.30	2.50	4.75
Operating temperature [°C]		-30 to +70						
Temperature peak [°C]	short term****	+120						
Inflammability	EN ISO 11925-2	class E/EN 13501-1						

* Tests according to respective standards
 ** Data valid for a form factor of q=3
 *** Testing parameters vary depending on density
 **** 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.

CONTACT DETAILS
 for further information and contact details, please visit our website at www.pyroteknc.com

www.pyroteknc.com/contact-us

