

Overview sylodyn®



Material:

closed cell polyurethane (PUR) with combined elastic and shock-absorbing 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:

NB

NC

ND

NE

NF

Properties	Test procedures	NB	NC	ND	NE	NF
Color		red	yellow	green	blue	violet
Permanent static load (N/mm ²)**		0.075	0.150	0.350	0.750	1.500
Load peaks (N/mm ²)**		max. 2.0	max. 3.0	max. 4.0	max. 6.0	max. 8.0
Min. tensile stress at rupture (N/mm ²)	DIN EN ISO 527-3/5/100*	0.75	1.5	2.5	4	7
Min. tensile elongation at rupture (%)	DIN EN ISO 527-3/5/100*	450	500	500	500	500
Abrasion (mm ³)***	DIN 53516	>1.400	>550	>100	>80	>90
Residual compression set (%)	EN ISO 1856	<5	<5	<5	<5	<5
Static shear modulus (N/mm ²) (at permanent static load)	DIN ISO 1827*	0.13	0.21	0.35	0.61	0.8
Dynamic shear modulus (N/mm ²) (at permanent static load, 10 Hz)	DIN ISO 1827*	0.18	0.29	0.47	0.86	1.18
Mechanical loss factor	DIN 53513*	0.07	0.08	0.08	0.09	0.1
Static elasticity modulus (N/mm ²) (at permanent static load)**	DIN 53513*	0.75	1.10	2.55	6.55	11.8
Dynamic elasticity modulus (N/mm ²) (at permanent static load, 10 Hz)**	DIN 53513*	0.9	1.45	3.35	7.7	15.2
Resistance to strain at 10 % deformation (N/mm ²)		0.09	0.15	0.35	0.7	1.3
Operating temperature (°C)		-30 bis +70				
Temperature peak (°C)	short term	+120				
Inflammability	DIN 4102 EN ISO 11925-2	B 2 B, C und 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

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.

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

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