

Sylocraft® SCA 5001 Data Sheet

SCA
5001

by getzner
sylocraft®

Material mixed-cell thermoplastic elastomer (TPE)
100 % recyclable
no additives

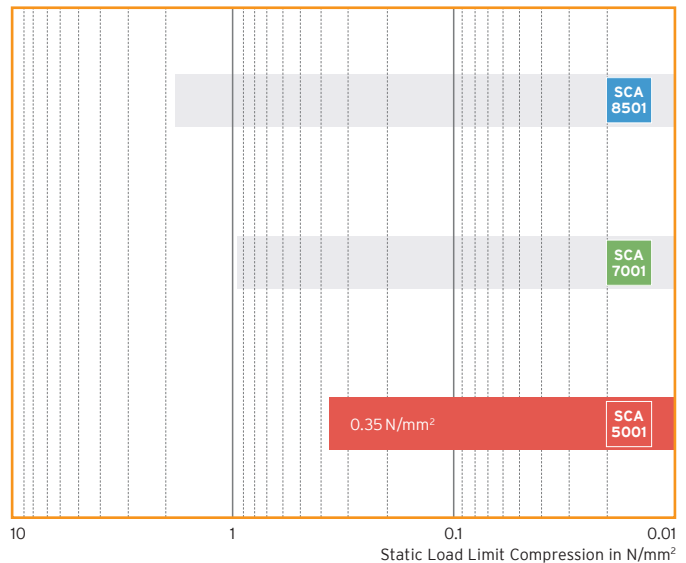
Colour red

Dimensions customer specific injected designs

Different colours also available upon request.

Sylocraft® SCA range

Static range of use



Range of use	Compressive load	Deformation
	100 mm × 100 mm × 20 mm (Values apply to shape factor q=1.25)	
Static Load Limit Compression (static loads)	0.35 N/mm ²	approx. 6 %
Peak Load Limit Compression (occasional, brief loads)	0.55 N/mm ²	approx. 12 %

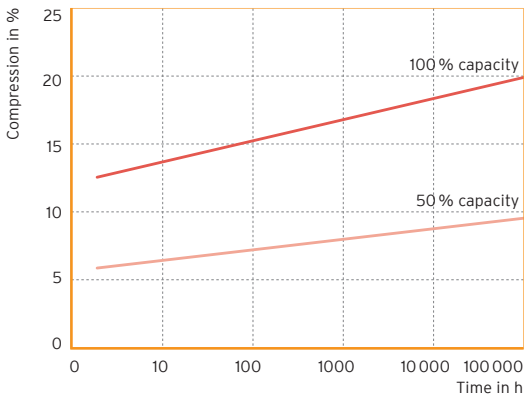
Material properties		Test methods	Comment
Mechanical loss factor	0.07	DIN 53513 ¹	temperature-, frequency-, specific load- and amplitude-dependent
Shore Hardness	65	ASTM D 2240, A	with skin finish
Compression set	≤ 5 %	ISO 1856 Method B ¹	25 % deformation, 23 °C, 22 h, 30 min after removal of load, sample size: 25 × 25 × 12 mm
Min. tensile stress at rupture	2 N/mm ²	DIN EN ISO 527-1:2019	
Min. tensile elongation at rupture	600 %	DIN EN ISO 527-1:2019	
Temperature range	-20/+ 65 °C		
Specific volume resistance	10 ¹¹	DIN EN 62631-3-1: dry; Ωcm	
Water absorption	0.25 %	ASTM D 1056	with skin finish

¹Measurement/evaluation in accordance with the relevant standard

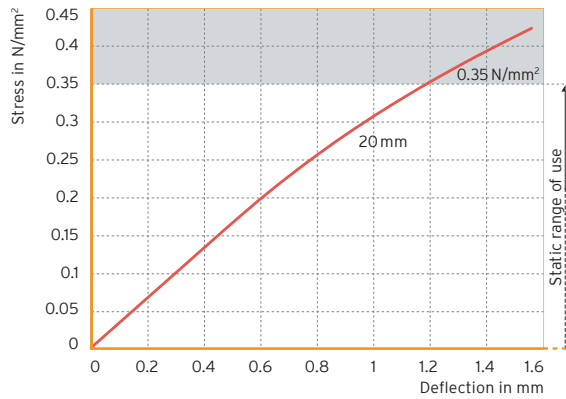
Chemical resistance	Test conditions
10 % sulphuric acid (H ₂ SO ₄)	168 h / 23 °C
10 % caustic soda (NaOH)	168 h / 23 °C
50 % zinc chloride (ZnCl ₂)	168 h / 23 °C
Boiling water	168 h / 100 °C
Household Detergeant (30 g/l)	168 h / 95 °C
Potassium hydroxide (KOH)	168 h / 70 °C
ASTM N°1 oil	72 h / 100 °C
Isooctane (C ₈ H ₁₈)	168 h / 23 °C
Paraffin (C _n H _{2n+2})	168 h / 23 °C
Acetone (C ₃ H ₆ O)	168 h / 23 °C
Ethylene-glycol (C ₂ H ₆ O ₂)	168 h / 23 °C

Very good resistance to acids and bases, aqueous solvents, fatty acids, glycols, aliphatic and organic cleaning solvents. Specific chemical resistance upon request.

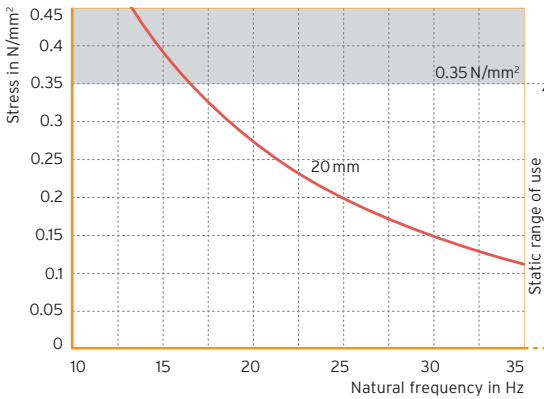
Creep
(at shape factor 1.25)



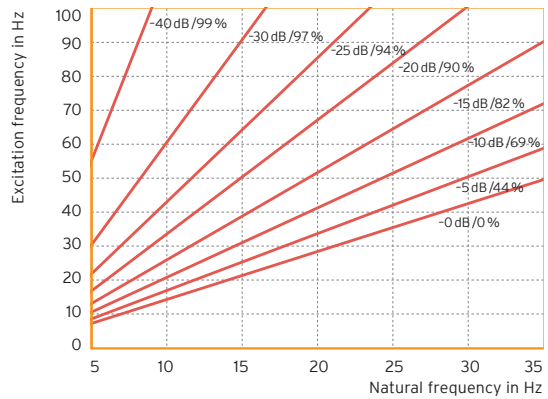
Load deflection curve
(at shape factor 1.25)



Natural frequency
(at shape factor 1.25)



Vibration isolation efficiency



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.