SYLOMER® FR 355

FR 355

DATA SHEET

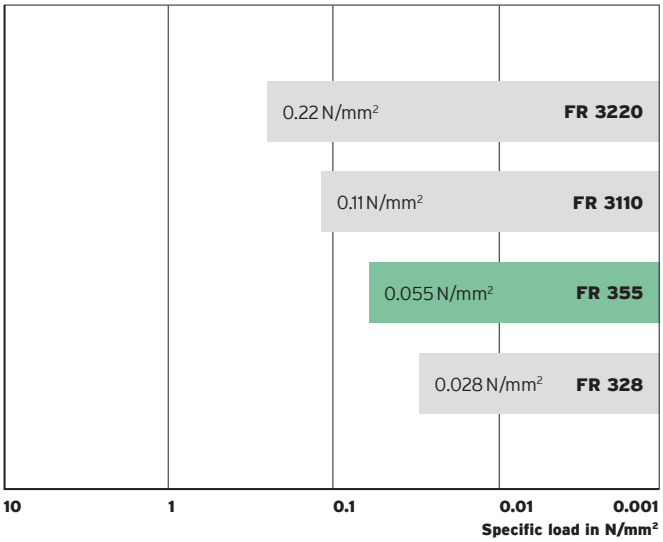
Product characteristics

Material	mixed-cell flame retardant PU elastomer (polyurethane)
Colour	mottled green
Standard delivery dimension	Thickness: 25 mm / 50 mm
	Mat: 0.5 m wide, 1.5 m long
	Strip: max. 1.5 m long

Other dimensions and self-adhesive equipment on request.

Standard Sylomer® FR range

Static range of use



Material properties		Test methods	Comment
Static range of use[2] (static loads)	up to 0.055 N/mm²		
Dynamic range of use[2] (static and dynamic loads)	up to 0.076 N/mm²		
Load peaks[2] (occasional, brief loads)	up to 2.0 N/mm²		approx. 70 % deformation
Mechanical loss factor	0.28	ISO 4664-1[1]	temperature-, frequency-, specific load- and amplitude-dependent
Compression set	< 5 %	EN ISO 1856[1]	50 % deformation, 70 °C, 22 h, 30 min after removal of load
Min. tensile stress at rupture	0.35 N/mm²	EN ISO 527-3/5/500[1]	
Min. tensile elongation at rupture	130 %	EN ISO 527-3/5/500[1]	
Temperature range	-30 °C up to 70 °C		short term higher temperatures possible
Flammability	S4 / SR2 / ST2	DIN 54837	evaluation with DIN 5510-2
	HL3 E	DIN EN 45545-2 DIN EN ISO 11925-2	requirements for R10 classification compliant with DIN EN 13501-1

[1] Measurement/evaluation in accordance with the relevant standard
[2] Values apply to shape factor 3

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Load deflection curve

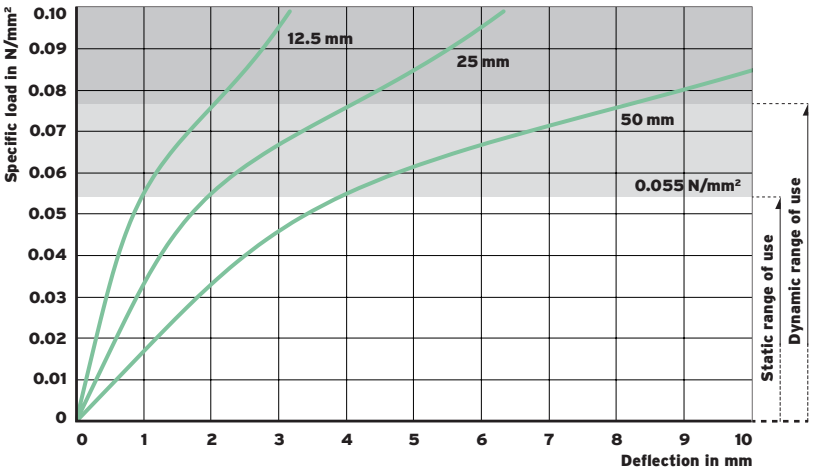

Fig. 1: Quasi-static load deflection curve for different bearing thicknesses

Quasi-static load deflection curve measured with a loading rate of 0.0055 N/mm²/s.

Testing between flat and plane-parallel steel plates, recording of 3rd load, with filtered starting range in accordance with ISO 844, testing at room temperature.

Shape factor 3

Modulus of elasticity

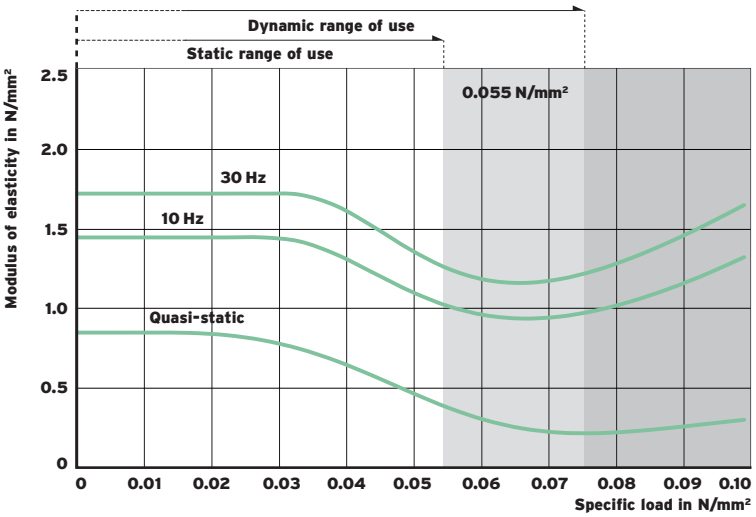

Fig. 2: Load dependency of the static and dynamic modulus of elasticity

Quasi-static modulus of elasticity as tangential modulus from the load deflection curve. Dynamic modulus of elasticity from sinusoidal excitation with a velocity level of 100 dB_v re. $5 \cdot 10^{-8}$ m/s corresponding to a vibration amplitude of 0.22 mm at 10 Hz and 0.08 mm at 30 Hz.

Measurement in accordance with ISO 4664-1

Parameter: frequency

Shape factor 3

Natural frequencies

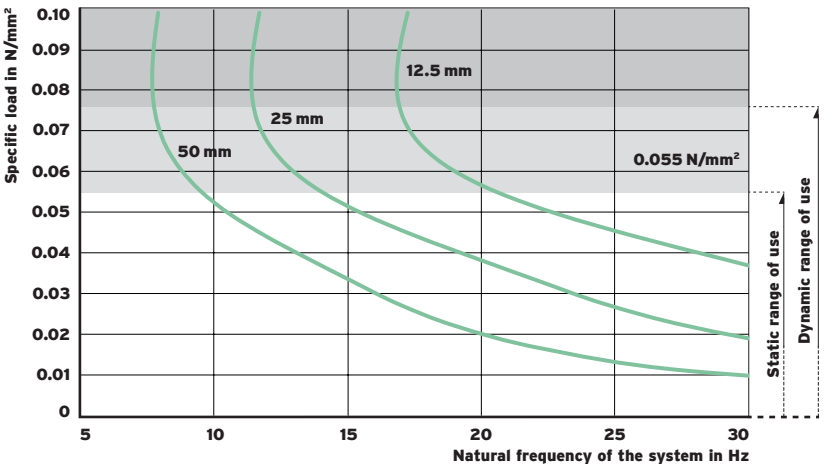

Fig. 3: Natural frequencies for different bearing thicknesses

Natural frequencies of a vibratory system with a single degree of freedome, consisting of a mass and an elastic bearing made of Sylomer® FR 355 on a rigid surface.

Parameter: thickness of the Sylomer® bearing

Shape factor 3

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Static creep behaviour

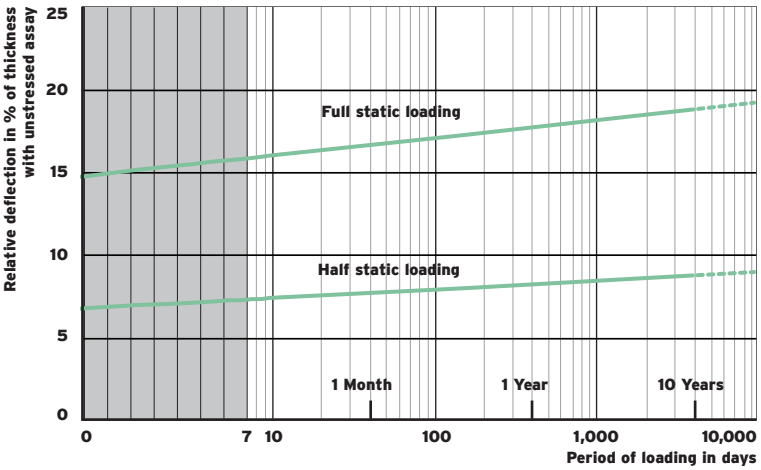

Fig. 4: Deformation under static load depending on time

Deformation under consistent loading.

Parameter: permanent static load

Shape factor 3

Our printing is **climate neutral.**

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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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