

Sylomer® FR 355

**FR
355**

Data Sheet

by getzner
sylomer® FR

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.

Material properties	Test methods	Comment
Static range of use ² (static loads)	up to 0.055 N/mm ²	
Dynamic range of use ² (static and dynamic loads)	up to 0.076 N/mm ²	
Load peaks ² (occasional, brief loads)	up to 2.0 N/mm ²	approx. 70 % deformation
Mechanical loss factor	$\eta = 0.28$	DIN 53513 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/mm ²	EN ISO 527-3/5/100
Min. tensile elongation at rupture	130 %	EN ISO 527-3/5/100
Temperature range	-30 up to 70 °C	short term higher temperatures possible
Flammability	S4/SR2/ST2	DIN 54837 evaluation with DIN 5510-2
	HL3 HL3 E	DIN EN 45545-2 DIN EN 45545-2 DIN EN ISO 11925-2 requirements for R10 requirements for R22 classification compliant with DIN EN 13501-1

¹ Measurement/evaluation in accordance with the relevant standard

² Values apply to shape factor q=3

Load deflection curve

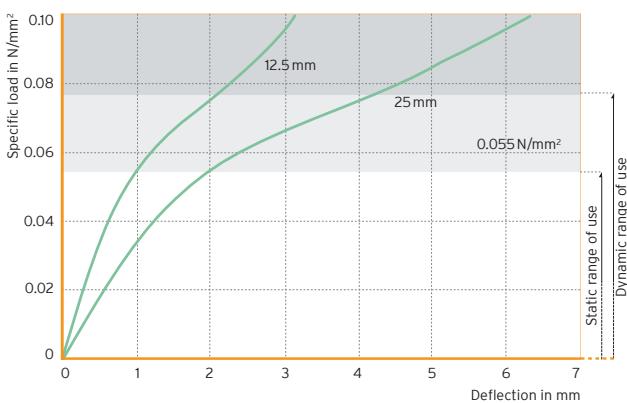


Fig. 1: Quasi-static load deflection curve for different bearing thicknesses

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

Testing between flat steel-plates;
recording of the 3rd loading; testing at room temperature.

Shape factor q=3

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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Modulus of elasticity

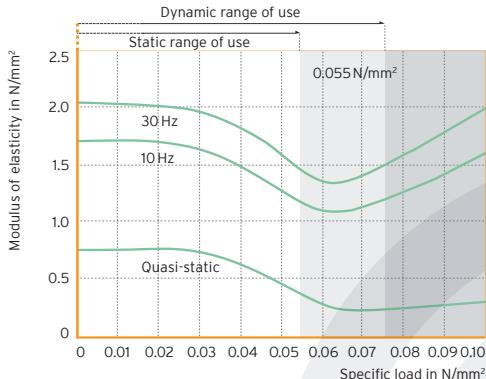


Fig. 2: Load dependency of the static and dynamic modulus of elasticity

Natural frequencies

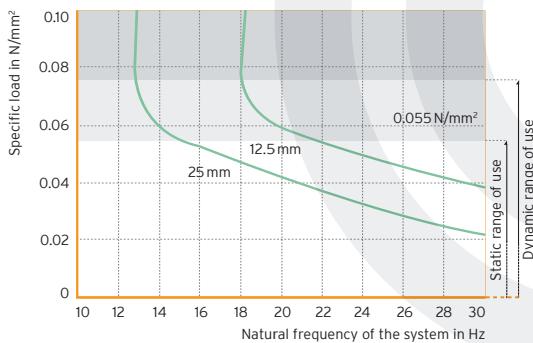


Fig. 3: Natural frequencies for different bearing thicknesses

Static creep behaviour

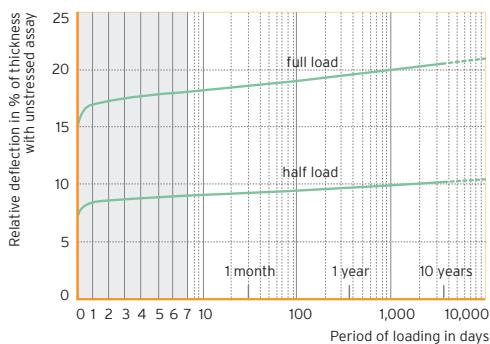


Fig. 4: Deformation under static load depending on time

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