RELOMER® SRG60

SRG 60

DATA SHEET

Produkteigenschaften

Material	PUR elastomer made from PU-bonded PUR granules for structure-borne sound insulation and vibration isolation
Colour	multicoloured
Standard delivery dimension	Thickness: 12.5 mm / 25 mm
	Strip: 1.2 m long, 1.0 m wide

Material properties		**Test methods**	**Comment**
Static range of use [1] (static loads)	up to 0.06 N/mm²		
Dynamic range of use [1] (static plus dynamic loads)	up to 0.09 N/mm²		
Static modulus of elasticity [1]	0.29 N/mm²	DIN 53513 [2]	at a specific load of 0.06 N/mm²
Dynamic modulus of elasticity [1]	0.62 N/mm²	DIN 53513 [2]	at a specific load of 0.06 N/mm², 10 Hz
Static shear modulus [1]	0.11 N/mm²	DIN ISO 1827 [2]	at a specific load of 0.06 N/mm²
Dynamic shear modulus [1]	0.16 N/mm²	DIN ISO 1827 [2]	at a specific load of 0.06 N/mm², 10 Hz
Min. tensile stress at rupture	0.33 N/mm²	ISO 1798 [2]	
Min. tensile elongation at rupture	90 %	ISO 1798 [2]	
Temperature range	-30 °C to 70 °C		Short term higher temperature possible
Flammability	class E	EN ISO 11925-2	normal combustible, EN 13501-1

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

Load deflection curve

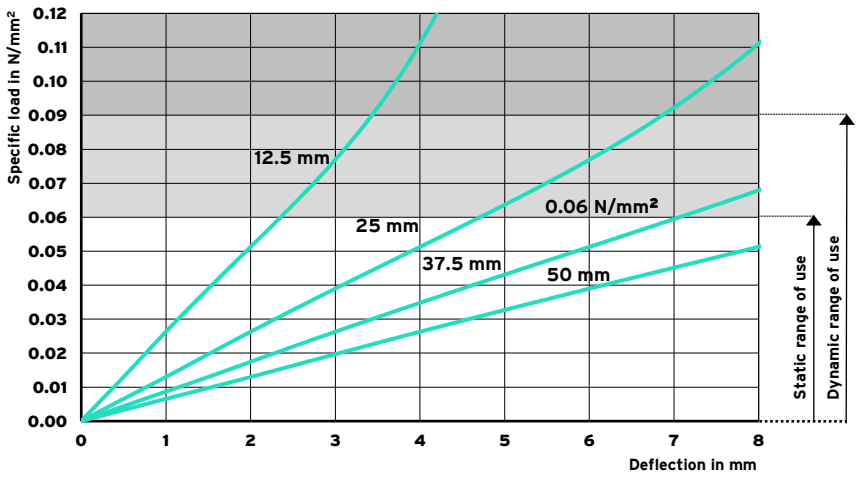

Fig. 1: Quasi-static load deflection curve measured with a loading rate of 0.006 N/mm²/s.

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

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Modulus of elasticity

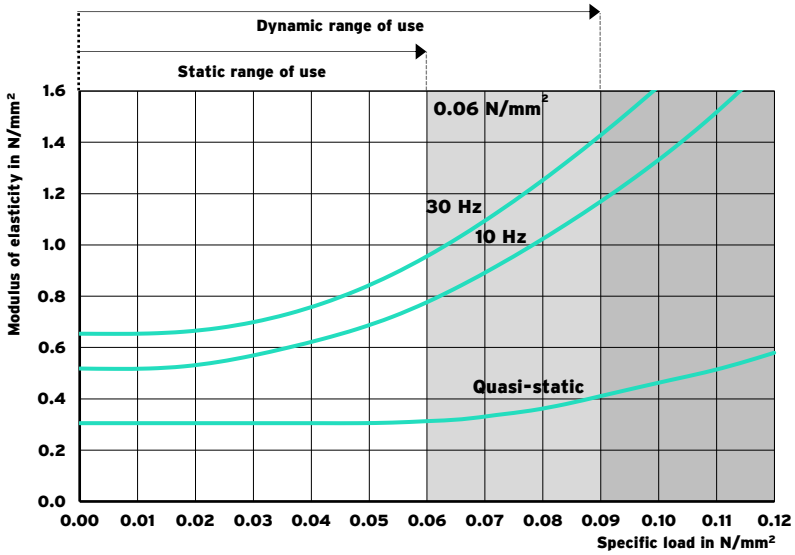

Fig. 2: Quasi-static modulus of elasticity as tangential modulus from the load deflection curve. Dynamic modulus of elasticity from sinusoidal excitation with a velocity level of 100 dB_v re. $5 \cdot 10^{-8}$ m/s (corresponding to a vibration amplitude of 0.22 mm at 10 Hz and 0.08 mm at 30 Hz).

Measurement in accordance with DIN 53513

Parameter: frequency

Shape factor 3

Natural frequencies

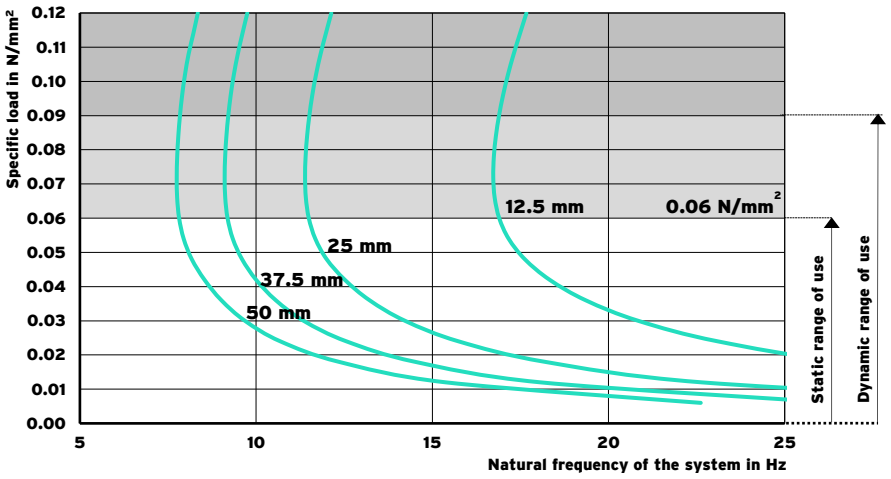

Fig. 3: Natural frequencies of a vibratory system with a single degree of freedom, consisting of a mass and an elastic bearing made of Relomer® SRG60 on a rigid surface.

Parameter: Thickness of the Relomer® bearing

Shape factor 3

Material properties can be determined using the online calculation program FreqCalc. The program can be accessed via www.getzner.com (registration necessary).

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.