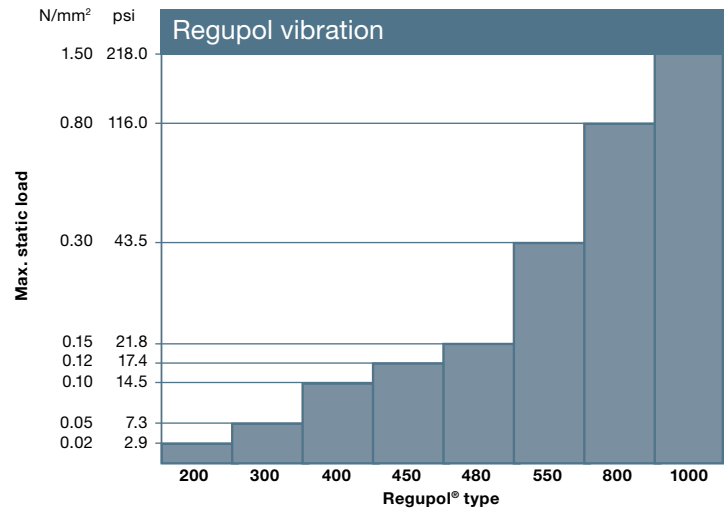


## Regupol Vibration Overview

Regupol® vibration is a high performance elastomer made of rubber fibers, granules and polyurethane. It is available in 8 unique types, each engineered for a specific load range, and is available in rolls or sheets.

Regupol vibration offers low natural frequencies ( $f_0 \geq 7.5$  Hz), which are constant over wide load ranges. This provides additional reliability when actual loads differ from the (theoretical) design load. Regupol vibration 200, 300, 400 are supplied with a dimpled underside to decrease the dynamic rigidity and to provide an air gap.



Regupol vibration		200	300	400	450	480	550	800	1000	
Permanent static load	psi	2.9	7.3	14.5	17.4	21.8	43.5	116.0	218.0	
	N/mm²	0.02	0.05	0.10	0.12	0.15	0.30	0.80	1.50	
Optimum load range	psi	0.6 to 2.0	1.5 to 7.3	7.3 to 14.5	2.0 to 17.4	6.1 to 21.8	21.8 to 43.5	30.0 to 117.0	117.0 to 218.0	
		Tensile strength <sup>1</sup>	psi	17.4	43.5	49.3	21.8	52.2	87.0	130.5
	N/mm²	0.12	0.30	0.34	0.15	0.36	0.60	0.90	333.6	2.3
Mechanical loss factor <sup>2</sup>		0.22	0.18	0.17	0.2	0.17	0.16	0.18	0.16	
Static modulus of elasticity <sup>3</sup>	psi	2.9 to 11.6	14.5 to 29.0	43.5 to 79.8	29.0 to 58.0	36.3 to 116.0	72.5 to 247.0	174.0 to 421.0	580.0 to 1,595.0	
		Dynamic modulus of elasticity <sup>4</sup>	psi	7.3 to 55.1	29.0 to 203	131.0 to 348.0	65.3 to 392.0	174.0 to 479.0	363.0 to 1,015.0	522.0 to 2,640.0
Compression hardness <sup>5</sup>		kPa	14	50	180	83	220	415	545	1650

1 Measurement based on DIN EN ISO 1798

2 Measurement based on DIN 53513; load-, amplitude- and frequency-dependent.

3 Measurement based on an EN 826.

4 Measurement based on DIN 53513; depending on frequency, load and thickness.

5 Measurement based on DIN EN ISO 3386-2; compressive stress at 25 % deformation, depending on thickness.

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