SYLODAMP®

DETAILED DATA SHEET

Static creep behaviour

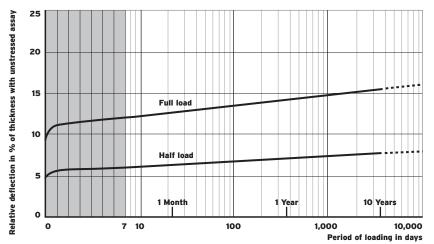


Fig. 1: Deformation under static load depending on time

Like other elastomers, Sylodamp® exhibits increased deformation under a static load (creeping). This increase in deformation is proportional to the time logarithm. In other words, the additional deformation that occurs is always the same for each decade (1 day, 10 days, 100 days, etc.). The largest increase in deformation due to creeping is completed after a relatively short period of time. The areas of application for Sylodamp® have therefore been selected so that the creep curve is the same for all types.

Amplitude dependence

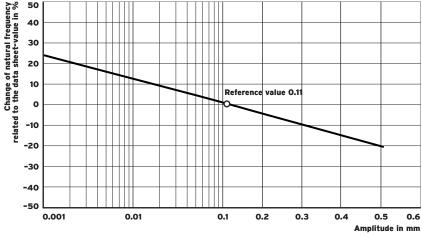
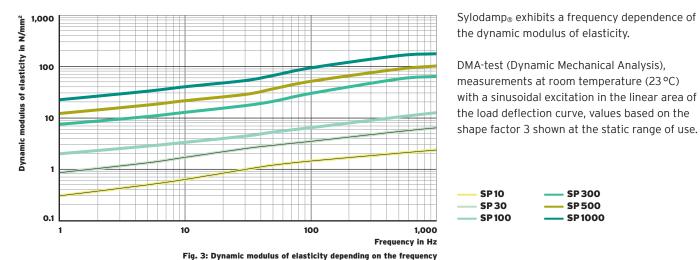


Fig. 2: Dynamic modulus of elasticity depending on the vibration amplitude

Reference value: amplitude 0.11 mm (corresponds to a velocitiy level of $100\,dB_{\nu}$ at $10\,Hz$).



Frequency dependency of the dynamic modulus of elasticity



Frequency dependency of the mechanical loss factor

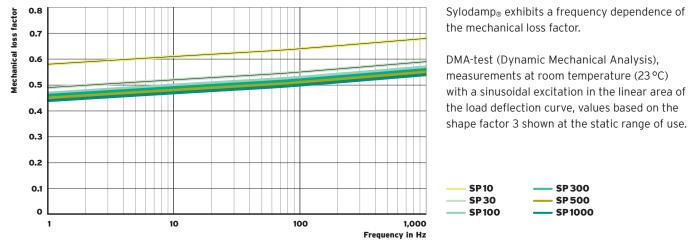
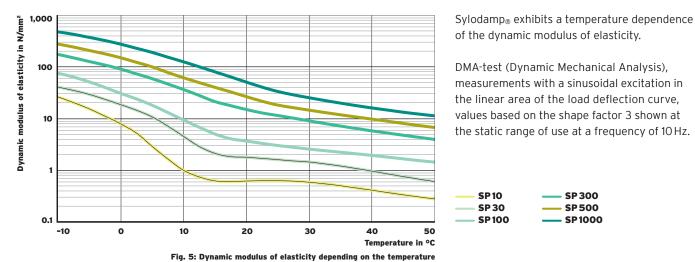


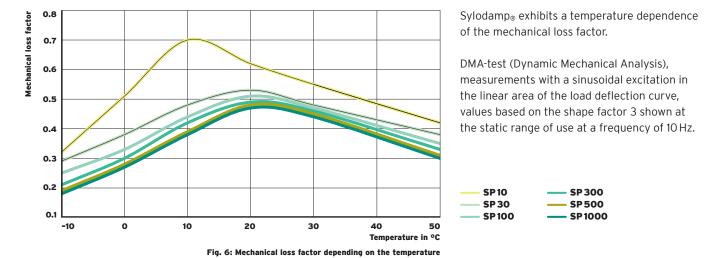
Fig. 4: Mechanical loss factor depending on the frequency

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Temperature dependency of the dynamic modulus of elasticity



Temperature dependency of the mechanical loss factor



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Energy absorption

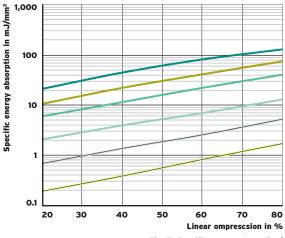


Fig. 7: Specific energy absorption¹ for a bearing thickness of 12.5 mm

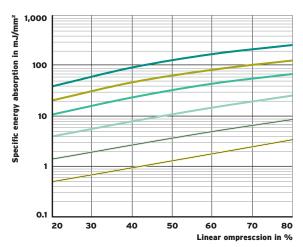
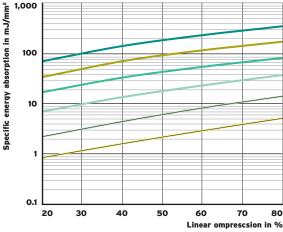
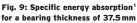


Fig. 8: Specific energy absorption¹ for a bearing thickness of 25 mm





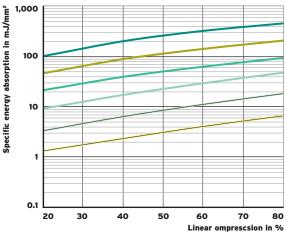


Fig. 10: Specific energy absorption¹ for a bearing thickness of 50 mm



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.



 $^{^1}$ Specific energy absorption by an impact load. Drop impact load with a round, flat force. Recording of 1st load, impact velocity between 0.5 m/s and 5 m/s. Test at room temperature (23 °C). Parameter: thickness of Sylodamp, shape factor 3