

Technical Data Sheet Sylomer HD® 100

Sylomer HD® 100 green

Sylomer HD® 100 – mixed-cell polyether urethane (PUR elastomer) for vibration isolation, colour green, raw density 500 kg/m³

Typical Properties

- Vibration isolation (spring and damping effect)
- Mixed-cell elastomer structure
- Colour-coded by load range (green)
- High durability and fatigue strength
- Low amplitude dependence
- Wide static and dynamic load range
- Low compression set
- Easily cut / fabricated to size

Typical Industries

- Railway technology (ballast mats & under-sleeper pads)
- Building technology (mass-spring systems)
- Mechanical and plant engineering (machine mounting)
- Building services / HVAC (unit mounting)
- Rail vehicle construction
- Vibration and structure-borne noise isolation

	Test Method	Unit	Value
General Properties			
Material type			Mixed-cell polyether urethane
Colour			green
Raw density	DIN 53 420	kg / m ³	500
Static continuous load		N / mm ²	0 to 0.075
Mechanical Properties			
Min. tensile strength	DIN 53 455-6-4	N / mm ²	1
Min. elongation at break	DIN 53 455-6-4	%	200
Compression set	DIN 53 572	%	2
Thermal Properties			
Service temperature		°C	-30 ... +70
Service temperature, short-term		°C	+110

Sylomer® is a registered trademark of Getzner Werkstoffe GmbH. Sylomer HD® 100 (green) is a mixed-cell polyether urethane elastomer for vibration and structure-borne noise isolation; the colour indicates the load range. The information is based on the current state of knowledge (data sheet revision 1 December 2008) and may be used as calculation or guide values; it is subject to the usual manufacturing tolerances and to change without notice. The spring and damping behaviour (static/dynamic stiffness, natural frequency) depends on the surface pressure and component geometry and must be designed application-specifically. The values serve as an aid to material selection and are not a legally binding warranty of specific properties.