

## Cushion pads made from Lamigamid®

The function of the pile driver cap is the optimal transfer of the stroke energy to the pile. Due to the light buffer effect, peak loads are prevented and the energy input to the pile is more balanced and therefore the pile head is protected from damage. This in combination with the strongly reduced noise emission makes that our products find their place in many piling rigs.

Cushion pad made from Lamigamid®

### Requirement profile for the material of Cushion Pads

- Reduction of noise emission
- Equalize the energy transfer
- Temperature resistant
- Impact strength
- Absorption of vibrations and shocks in combination with a good rebound factor
- Elastic material properties with at the same time, high resistance
- High abrasion resistance
- Good resilience

### Our solution: Cushion Pads made from Lamigamid® 307 und 450 N

The products are produced via the special casting process which allows a tailored formulation in combination with stress free resilient material. The rebound effect can be controlled by the choice of impact modifiers. Therefore the material Lamigamid® 307 is better to be used at higher resistance whereas the 450 N material offers good properties in standard situations.

## Facts about: Lamigamid® 307 and 450 N

Property	Norm	Lamigamid® 307 value*	Lamigamid® 450 N value*	Unit
Density	DIN EN ISO 1183-1	~ 1,14	~ 1,15	g/cm <sup>3</sup>
Water absorption	DIN EN ISO 62	4,6 - 6,2	~ 4,8	%
<b>Mechanical</b>				
Tensile strength of yield	DIN EN ISO 527-1	55 - 70	35 - 45	MPa
Tensile strength at break	DIN EN ISO 527-1	> 50	> 30	%
Modulus of elasticity	DIN EN ISO 527-1	> 2300 - 3400	1500 - 2300	MPa
Impact strength (Charpy)	DIN EN ISO 179-1/1eA	5 - 6	7,5 - 16	KJ/m <sup>2</sup>
<b>Thermal</b>				
Melting temperature	DIN EN ISO 11357-3	200 - 225	185 - 195	°C

In addition to the mechanical values listed above, other tensile modulus variants can also be implemented.

## Our standards

Dimensions (mm)	Weight (kg)
ø 450 x 200 mm	36,6 kg
ø 403 x 300 mm	44,0 kg
ø 520 x 200 mm	48,8 kg
ø 590 x 200 mm	62,9 kg
ø 595 x 200 mm	64,0 kg
ø 600 x 200 mm	65,0 kg
ø 750 x 200 mm	101,6 kg
ø 595 x 350 mm	111,9 kg
ø 520/595 x 350 mm	96,9 kg

Do you want to learn more about our products? Our application engineers are available for consultation and help in selecting the most suitable material. We offer you virtually unlimited options in terms of shape and material. Tell us what you need and we will find the best solution for you.

\*Test results and calculations are to be considered as results reached under certain and controlled conditions. These test results and calculations should not be treated as specifications and Röchling Industrial Xanten does not guarantee, warrant or represent the outcome of test results or calculations in any or all circumstances.

**Röchling Industrial.** Empowering Industry.  
[www.roechling.com/industrial](http://www.roechling.com/industrial)



Röchling Industrial Xanten GmbH | Hagdornstraße 3 | 46509 Xanten | Germany  
 T +49 2801 76-0 | [info-xan@roechling.com](mailto:info-xan@roechling.com) | [www.roechling.com/industrial/xanten](http://www.roechling.com/industrial/xanten)