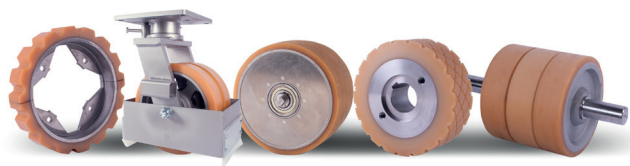




Did you know...

Vulkollan® is the benchmark polyurethane elastomer in the market, combining excellent mechanical properties for highest dynamical load bearing capacity and abrasion resistance. That is why you will find Vulkollan® in the most demanding applications



In a multistage process developed by Covestro (former Bayer Material Science), solid Vulkollan® is produced through chemical reactions between polyester polyols of the high-quality Vulkollan® range, Desmodur® 15 and glycols. Desmodur® 15 is the trade name for 1,5-naphthylene di-isocyanate (NDI) from Covestro. The ultra-high-performance elastomer covers a hardness range from approx. 65 Shore A up to 60 Shore D. Vulkollan® can only be manufactured by licensed processors as VULKOPRIN. They produce wheels and castors to deal with highest dynamic loads, technical and semi-finished parts.

Learn more about Vulkoprin | Vulkollan® applications
<https://www.vulkoprin.be/en/techcorner>



The 8 family members of Vulkollan®



1 Hardness

Formulations from soft to very hard makes Vulkollan® spanning the full spectrum between rubbers and thermoplastics. Thanks to this wide range of hardness, Vulkollan® can be found in a broad area of technical applications. Vulkoprin produces Vulkollan® ranging from 75 up to 97 shore A.

2 Tensile strength

Vulkollan has very high values for tensile strength. Elongations up to 7 times the original length is needed before rupture of the specimen occurs. Together with high values for tear and tear propagation means Vulkollan® is virtually unequalled for wear and tear in conditions of dry or wet friction.

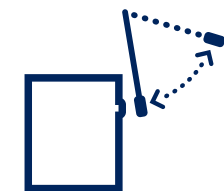


3 Damping

Good damping behavior, combined with the other physical properties, makes Vulkollan® the ideal material for anti-vibration elements.

4 Rebound resilience

The rebound resilience gives a measure for the elasticity of a material. Vulkollan® shows high and almost constant values over the whole hardness range between 0°C and 120°C. The higher the rebound resilience the less energy is transformed into heat by a deformation.

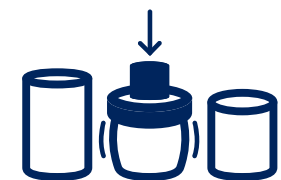


5 Chemical resistance

Unlike many other elastomers, Vulkollan® is highly resistant to many chemicals and, in particular, to mineral oils, petrol and benzene.

6 Compression set

Compression set is the amount by which a compressed elastomeric material fails to return to its original shape when the load is removed. The low compression set of Vulkollan® is a decisive factor behind its successful use for items such as wheels, damping and sealing elements.

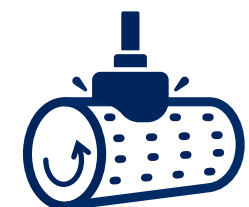


7 Tear strength en tear propagation resistance

Vulkollan® has high values for tear strength and tear propagation resistance. This, together with the high elasticity, offers an exceptional wear resistance in dry and wet conditions.

8 Wear

Vulkollan®'s high resistance to wear ensures a long service life for expensive capital investments even under the harshest abrasive loads.





Material handling industry

Theme park industry



Machinery industry



Maintenance & Repair



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