

# Technical Information

## VULKOLLAN® 93 Shore A



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VULKOLLAN® is a highly elastic, cross-linked polyurethane elastomer based on DESMODUR® 15\* with excellent mechanical properties. This includes high dynamic load capacity, high abrasion resistance and tear growth resistance, the highest modulus of elasticity of all elastomers, high mechanical wear resistance as well as high impact resilience and low compression set. As a result, VULKOLLAN® is the preferred choice for use in drive wheels and load wheels in industrial

trucks, materials handling and mechanical engineering.

- Long service life
- High load capacities
- High speeds
- High impact resilience

Technical Information	Standard			Unit	Value
Hardness	DIN	ISO	7619-1	Shore A	93 (± 3)
Density	DIN	EN ISO	1183-1	g/cm³	approx. 1,2
Elongation at break	DIN	DIN	53 504	%	approx. 650
Stress value at 100%	DIN	DIN	53 504	MPa	9,5 - 10,0
Rebound resilience	ISO	DIN	53 512	%	55 - 60
Determination of tear strength	ISO	DIN	34-1	kN/m	60 - 65
Compression set 70 h, 23°C	ISO		815-1	%	10 - 11
Abrasion resistance			4649	mm³	39
Coefficient of friction (traction) on wet floor at 8000 N				- -	0,1
Rolling resistance at 20°C of charge (average)				%	0,8 - 0,9
Starting resistance at 20°C of charge (average)				%	1,1 - 1,4

All values indicated in this table are approximative values resulting from our own tests or information given by our raw material suppliers. The standardised tests refer to special test samples. Therefore these values are not directly applicable to wheels and castors. Furthermore these values change under such influences as temperature, humidity, duration of charge, rate of deformation, etc.

For more information please visit [www.raedervogel.de](http://www.raedervogel.de).

No legal obligation.

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