



## LEGEND

Table 1 | (\*) Tear propagation resistance (graves) |

Table 2 | • Basic | •• Good | ••• Recommended |

Table 1	Material	Unit	Norm	VULKOLLAN®				PRINTHANE							
				75	80	90	95	Grip	B65	B75	C	X92	X95	X97	F
Properties				VH75	VI80	VK90	VL95	RK90	BF65	BH75	YL95	CK92	CL95	CM97	FL95
Color				natural	natural	natural	natural	natural	dark blue	dark blue	black	natural	black	brown	natural
Shore-Hardness (±3)	Shore A/D	DIN 53505	74/-	82/29	92/37	95/42	92/37	65/-	72/-	92/37	92/41	95/43	97/47	95/42	
Stress at 100% strain	MPa	DIN 53504	3,0	4,5	8,6	11,1	8,6	2,0	2,8	8,6	9,0	10,5	15,8	7,7	
Stress at 300% strain	MPa	DIN 53504	7,1	8,4	18,8	21,6	18,8	2,8	3,8	18,8	15,5	17,0	22,5	13,0	
Tensile strength	MPa	DIN 53504	38	45	42	32	42	30	33	42	55	40	28	47	
Elongation at break	%	DIN 53504	580	600	650	640	650	824	739	650	550	540	400	650	
Tear propagation resistance*	kN/m	DIN 53515	25	30	58	74	58	31	31	58	98	140	140	50	
Rebound	%	DIN 53512	59	60	55	50	55	51	47	55	70	73	73	65	
Abrasion resistance	mm³	DIN 53516	45	41	42	44	42	46	47	42	-	-	-	31	
Density			1,26	1,26	1,26	1,26	1,26	1,20	1,10	1,26	1,17	1,18	1,18	1,19	
Compression set	%	DIN 53517													
70H/23°C - 70H/73,5°F			12	12	12	13	12	20	21	12	18	18	18	26	
24H/70°C - 24H/158°F			20	20	20	22	20	40	38	20	25	25	25	37	

Table 2	Material	VULKOLLAN®				PRINTHANE							
		75	80	90	95	Grip	B65	B75	C	X92	X95	X97	F
Application		VH75	VI80	VK90	VL95	RK90	BF65	BH75	YL95	CK92	CL95	CM97	FL95
Manual	•••	•••	•••	•••	•••	-	•••	•••	•••	•••	•••	•••	••
Driven	•	••	•••	••	•••	•	••	•••	•••	••	••	••	••
Heavy load	•	•	••	•••	••	•	•	••	••	••	••	••	•••
Long distance	•	•	•••	•••	••	•	•	•••	•••	••	••	••	•••
Uneven floor	••	••	•••	•	••	••	••	•••	••	•	•	•	•
Wet floor	••	••	••	•	•••	••	•••	••	••	•	•	•	•
Noise reduction	•••	•••	••	••	••	••	••	••	••	••	••	•	••
Rolling resistance	•	••	•••	•••	••	•	••	•••	•••	••	••	••	•••
Non marking	•••	•••	•••	•••	•	•••	•••	•••	•••	••	••	••	•••
Ambient temperature <0°C	•	•	••	••	••	•	•	•	••	••	••	••	•
Ambient temperature >40°C	••	••	••	••	••	•	•	••	••	••	••	••	•••
Wear	••	•••	•••	•••	••	••	••	••	••	••	••	••	••
V-max. lifttruck drive wheel m/s	-	12	25	30	25	-	12	25	30	-	-	-	-
V-max. lifttruck load Wheel m/s	-	16	30	40	30	-	16	30	40	-	-	-	-
Extreme V	•	•	••	••	••	•	•	••	••	••	••	••	•••
Hydrolysis resistance	•	•	•	•	•	•	•	•	•	••	••	••	•
Electrical conductive ISO2878	-	-	-	-	-	-	-	•••	-	-	-	-	-

Belgium-based Vulkoprin® was established in 1964 and has been designing and manufacturing for over 50 years top quality wheels, castors, rollers and tyres using excellent materials such as Vulkollan® (under licence of Covestro), Printhane®, Easyroll® rubber, nylon, steel, aluminium, cast iron.

Over the years Vulkoprin® developed the knowledge and experience to help solve any wheel or castor related enquiries. Our expert solutions are now

recognised world-wide, as products of the highest quality. Today Vulkoprin® wheels and castors are found throughout the world in applications as diverse as rollercoasters to industrial trolleys. Our design and engineering team is supported by the latest computer design facilities, finite element analysis and wheel testing equipment allowing us to engineer the optimal technical and most cost-effective solution. Vulkoprin® today is a fully integrated state of the art production facility with one

source responsibility and quality assurance as our n°1 priority! These features coupled with our ISO 9001 certification ensure that we maintain our leading position as designer and manufacturer of innovative technical wheel solutions. Whether you require a standard catalogue stock item or a custom-made wheel and axle assembly you can be sure Vulkoprin® will meet your specific requirements.



## TECHNICAL WHEELS



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VULKOPRIN E-0315

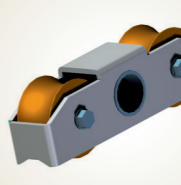
# CUSTOM ENGINEERED WHEELS

**DESIGN AND ENGINEERING SUPPORT**

**TOP MATERIALS FOR EXTREME WORKING CONDITIONS**

100% INTEGRATED MANUFACTURING | STATE OF THE ART PRODUCTION | QUALITY ASSURANCE & TRACEABILITY | MOULDMAKING | TESTING EQUIPMENT

## APPLICATIONS

										
<b>01 STACKER CRANES</b>	<b>02 WATER TREATMENT</b>	<b>03 INDUSTRIAL GATES</b>	<b>04 INDUSTRIAL LIFTS</b>	<b>09 BAGGAGE HANDLING</b>	<b>10 SCREENING DRUMS</b>	<b>11 COOLING DRUMS</b>	<b>12 FILTER INSTALLATIONS</b>	<b>17 POTATO HARVESTING</b>	<b>18 HARBOUR CRANES</b>	<b>19 DOCKING STATION</b>
Fastmoving stacker cranes equipped with Vulkollan® drive and guide wheels.	Water treatment equipment runs on Vulkollan® drive wheels with anticorrosion protection.	Custom-made groove wheel for industrial sliding gates.	Assembly with concave guide rollers for steel cable in industrial elevators.	Baggage handling with precision guide rollers in airports.	Rotating screening drum with heavy load Vulkollan® drive wheels.	Cooling drum with Vulkollan® drive wheels in cast iron manufacturing.	Tilting pan filters use anti-hydrolysis Vulkollan® wheels for phosphate washing.	Vulkollan® wheel for chain conveying in potato harvesting.	Concave shaped guide wheel for cables in harbour cranes.	Triple swivel castor for docking systems in airports.
										

**MAXIMUM LOAD-CAPACITIES & HIGH SPEED APPLICATIONS**

## APPLICATIONS

										
<b>05 HEAVY-LOAD TRANSPORT</b>	<b>06 ROLLERCOASTER</b>	<b>07 FORKLIFTRUCKS</b>	<b>08 AUTOMOTIVE SOLUTIONS</b>	<b>13 WASTE TREATMENT</b>	<b>14 AUTOMATED GUIDED VEHICLES</b>	<b>15 ELEVATORS</b>	<b>16 TUNNEL DRILLING</b>	<b>20 TUMBLERS</b>	<b>21 GRAPHIC PRINTING</b>	
Handling of extreme loads with Vulkollan® wheels.	Leading manufacturer in Europe for highspeed rollercoaster wheels.	Heavy load 4-way sideloader in the glassindustry with wheels ø 1100 mm.	Skidrollers in Vulkollan® for automotive conveying systems.	Steel welded wheelcentre with Vulkollan® for waste sorting equipment.	Drive wheel for AGV.	Vulkollan® guide roller with excentric shaft for elevators.	Heavy load guiding wheels for tunneling and pipelines.	Tumblers with Vulkollan® drive wheels in the meat industry.	Adaptable swivel castor for print finishing equipment.	
										

**FROM DIAMETER 20 MM TO 1200 MM**