

Description	Abbreviation	NBR	NBR-AS	SI (SI-HD)	SI-AS	NK	HT1	HT2	ED	PU	VU1	PVC	FPM	EPDM	EPDM-MOS
	Chemical designation / trade name	Nitrile caoutchuc (AS = antistatic)		Silicone caoutchuc (AS = antistatic)		Natural rubber	High temperature material	High-temperature material	Elastodur	Polyurethane	Vulkollan® ⁴⁾	Polyvinyl-chloride	Fluor-caoutchuc	Ethylene-propylene-caoutchuc	Foam rubber made of Ethylene-propylene-caoutchuc
	Color / coding	black, gray, blue, light blue	black with blue dot	nature (translucid), green	black with red dot	gray, light brown	blue	black	green, blue	blue	dark green	blue (translucid)	black with white dot	grey	black
Chemical resistance	General weathering resistance	●●	●●	●●●	●●●	●●	●●●	●●●●	●●●	●●●	●●●	●●	●●●●	●●●●	●●●●
	Ozone resistance	●	●	●●●●	●●●●	●	●●●●	●●●●	●●●	●●●	●●●	●●●	●●●●	●●●●	●●●●
	Oil resistance	●●●●	●●●●	●●	●●	●	●●●●	●●●●	●●●	●●●	●●●	●●●	●●●●	●● ⁵⁾	●● ⁵⁾
	Fuel resistance	●●	●●	●	●	●	●●	●●●●	●●	●●	●●	●	●●●●	●	●●
	Alcohol resistance, ethanol 96%	●●●●	●●●	●●●●	●●●	●●●●	●●●●	●●	●●●	●●●●	●●●●	●	●●	●●●●	●●●●
	Solvents resistance	●●	●●	●●	●●	●	●●	●●●	●	●	●	●	●●●	●●	●●
	General resistance to acids	●	●	●●	●●	●●	●	●●●	●	●	●	●●	●●●	●●●	●●●
	Bases resistance	●	●	●●	●●	●	●	●●	●	●	●	●●	●●	●●●	●●●
	Steam resistance	●●	●●	●●	●●	●	●●●	●●	●	●	●	●●●	●●	●●●	●●●
Mechanical characteristics	Wear resistance	●●	●●	● (●)	●	●●	●●●	●	●●● (●)	●●●●	●●●●	●●●	●	●●	●
	Resistance to permanent deformation	●●	●●	●●	●●	●●●	●●	●●	●	●	●●	●	●●	●●	●●
	Tensile strength	●●	●●	●	●	●●	●●	●●	●●● (●)	●●●	●●●●	●●	●●	●●	●
	Specific resistance in [Ω x cm]	–	10 ³ to 10 ⁶ ¹⁾	–	10 ³ to 10 ⁶ ¹⁾	–	–	–	–	–	–	–	–	–	–
	Shore hardness to DIN ISO 7619	40 to 80 ± 5	55 ± 5	40 to 70 ± 5 ²⁾ (65 ± 5)	55 ± 5	35 to 55 ± 5	60 ± 5	65 ± 5	60 to 85 ± 5	55 ± 5	72 ± 5	50 ± 5	65 ± 5	55 ± 5	~15 ⁶⁾
Temperature resistance ³⁾	Short-term in °C (< 30 sec.)	-30° to +120°	-30° to +120°	-40° to +220°	-35° to +220°	-35° to +120°	-25° to +170°	-10° to +250°	-40° to +100°	-40° to +130°	-40° to +100°	-30° to +65°	-10° to +250°	-35° to +130°	-35° to +100°
	Longer-term in °C	-10° to +70°	-10° to +70°	-30° to +180°	-20° to +180°	-25° to +80°	-10° to +140°	-5° to +200°	-25° to +80°	-30° to +100°	-30° to +80°	-15° to +50°	-5° to +200°	-25° to +100°	-25° to +70°
Further characteristics	Target industry	Universal	(Universal), Electronics	Packaging	Packaging, Electronics	Wood, Packaging	Plastics, Glass	Glass, Solar, Metal	Packaging, Metal	Packaging	Metal, Packaging, Glass, Wood	Packaging	Glass, Solar, Metal	Glass	Metal, Wood
	Food grade according to CFR 21 §177.2600 FDA			✓								✓			
	Leaving few marks						✓		✓				✓		
	Absence of PWIS (paint-wetting impairment substances)	NBR-60, NBR-45					✓		ED-85						
	Cleanroom suitability	on request	on request	●●● (●)	on request	on request	●●●	●●●	●●● (●)	on request	on request	on request	●●●	on request	on request

¹⁾Depending on size and geometry
²⁾After-bake of silicone 4 h/200 °C = ~+5 Shore A
³⁾Approximate value: depends on ambient temperature, application force, recovery time and wall thickness of suction cup

⁴⁾Vulkollan® is a registered trademark of Bayer AG
⁵⁾With slight oil wetting
⁶⁾Varies, for technical reasons, for foam rubber

●●●● Excellent ●●● Very good ●● Good ● Poor to satisfactory