



## O-Ring Material Properties

Properties	Nitrile Butadiene Rubber - NBR	Fluoro Rubber - FKM	Ethylene Propylene Diene Rubber - EPDM - Sulpher	Ethylene Propylene Diene Rubber - EPDM - Sulpher	Silicone Rubber - VMQ	High Nitrile Butadiene Rubber - HNBR	Fluorinated Silicone Rubber - FVMQ	Chlorosulphonated Rubber - CR	Polyurethane - AU/PU
Compression set	A	A	C	A	B	A	B	B	C
Tear strength	B	B	C	B	D	A	C	B	A
Abrasion resistance	B	B	B	B	D	B	C	B	A
Ageing resistance	D	A	B	B	A	B	A	B	A
Ozone resistance	D	A	B	B	A	B	A	B	A
Resistance to oil and grease	B	A	E	E	C	B	B	C	B
Fuel resistance	D**	B**	E	E	D	C	B	C	C
Resistance to hot water [°C]	80**	80**	130	150	100	100**	100	80	50
Resistance to steam [°C]	-	-	130	175	120*	-	120*	-	-
Heat resistance standard materials [°C]	100	200	130	150	200	150	175	100	100
Heat resistance special materials special materials [°C]	120	-	-	-	250	-	-	-	-
Low temperature resistance standard materials [°C]	-30	-15	-45	-50	-55	-30	-55	-40	-40
Low temperature resistance special materials [°C]	-50	-35	-	-	-	-40	-	-50	-

A = very good / B = good / C = average / D = low / E = weak

\* = short term / \*\* = better result only with special compound / \*\*\* = depends on compound

