

Material Selection Guide

Properties	NR	SBR	NBR	EPDM	CR	VMQ	FKM
Hardness Shore A	30-95	40-95	40-95	30-85	30-90	40-80	50-95
Temp Resistance °C	75°C	85°C	100°C	130 to°C	95°C	205°C	205°C
Max Intermittent °C	105°C	115°C	130°C	150°C	125°C	300°C	300°C
Low Temp Resistance °C	-60°C	-55°C	-20°C	-50°C	-35°C	-60°C	-20°C
Oxidation Resistance	★	★	★★	★★★★★	★★★★	★★★★★	★★★★★
Ozone and Weathering	👎	★	★	★★★★★	★★★★	★★★★★	★★★★★
Oil Resistance	👎	👎	★★★★★	★	★★	★★★★★	★★★★★
Alcohol	★★	★★	★★	★★	★★	★★	★★
Acetone	★	★	👎	★★	★	★	👎
Benzene	👎	👎	👎	👎	👎	👎	★★
Acids	★★	★★	★★	★★	★★	★	★★★★★
Bases	★★	★★	★	★★	★	★	★★
Physical Strength	★★★★★	★★	★★	★★	★★	👎	★★
Compression Set	★★	★★	★★	★★	★★	★★	★★
Tear and Abrasion	★★★★★	★★	★★	★★	★★	👎	★★
Resilience	★★★★★	★★	★★	★★★★	★★★★	★	👎
Gas Permeability	👎	✖	★★	✖	★★★★	★★	✖
Electrical Strength	★★★★★	★★★★★	★	★★★★★	★★	★★★★★	★★
Flame Resistance	★	★	★	★	Self-Extinguishing	★★	Self-Extinguishing
Water Resistance	★★★★	★	★★	★★★★★	★★	★★	★★

Abbreviations:

NR = Natural Rubber | SBR = Styrene Butadiene Rubber

NBR = Acryl Nitrile Butadiene Rubber

EPDM = Ethylene Propylene Diene Rubber

CR = Chloroprene Rubber

VQM = Silicone Rubber | FKM = Flouroelastomer

Out Standing:	★★★★★
Excellent:	★★★★
Very Good:	★★★
Good:	★★
Fair:	★
Fairly Low:	✖
Poor:	👎