

Material Comparison Chart

Property/Material	Ratings: E—Excellent G—Good F—Fair P—Poor										
	Neoprene	Nitrile	Hypalon	EPDM	Silicone	Urethane	Hydrin	Natural Rubber	SBR	Fluorosilicone	Viton
Tensile Strength	G / E	F	G	F	P*	E	G	G / E	F	P*	F
Hardness Range	35-95	25-100	40-90	25-90	35-95	10-95	50-90	30-100	30-100	50-80	60-80
Max. Service Temp. °F.	250	250	300	350	500 +	212	275 +	212	250	500 +	500 +
Ozone Resistance	F / G	P	E	E	E	E	F / G	P	P	E	E
Cut Resistance	G	F	F / G	F	P*	E	F / G	G	F	P*	F
Tear Strength	G	F	G	F	P*	E	F	G	F	P*	F
Resistance To											
Compression Set	G	F / G	F	G	E	F / G	F	F	F	G	G
Abrasion Resistance	G / E	F	G	F	P*	E	F	G / E	F / G	P*	F
Resistance To											
Heat Build Up	E	P	P / F	F / G	G / E	E	F / G	E	F	G / E	F
Swell Resistance To											
ASTM #1 Oil	F / G	E	F / G	P	G	E	E	P	P	E	E
ASTM #3 Oil	F	E	F	P	F	E	E	P	P	E	E
Reference Fuel B	F	G / E	P	P	P	E	G / E	P	P	E	E
Ketones: MEK	F	P	F	E	F	P	P	E	F / G	P	P
Aromatics: Toluene	P / F	G	P	P	P	P	G	P	P	G	E
Aliphatics: Hexane	G	E	G	P	P	E	E	P	P	G	E
Esters:											
Ethyl Acetate	G	P / F	F	E	G	P / F	P	E	F	G	E
Cellosolve	E	F	G	E	E	P / F	P	E	F	G	E
Chlorinated Solvents											
Methyl Chloride	P	P	P	E	F	P	P	E	P	G	E
Trichloroethylene	P	P	P	P	P	P	P	P	P	G	E
Glycols:											
Diethylene Glycol	E	E	E	E	E	G	E	E	G	E	E
Alcohols:											
Isopropyl Alcohol	G / E	G / E	E	E	G	G	G / E	E	G	E	E
Water:											
Distilled (75° F.)	G	G	E	E	G	G	G	E	G	E	E
Caustics: 10% NaOH	G / E	G / E	E	E	E	P	G	E	G	E	E
Acids: 10% H ₂ SO ₄ .	G / E	G / E	E	E	E	P	G	E	G	E	E

*NOTE: at elevated temperatures, these properties equal or exceed those of most other elastomers.