Properties	Natural Rubber	Polyisoprene	SBR	Nitrile	Neoprene	EPDM Rubber	Epichlorohydrin Rubber	Silicone	Fluoroelastomer
Material Designation (ASTM D-2000 SAE J200 Classification)	AA	AA	AA	BF, BG, BK, CH	BC, BE	CA	СН	GE	НК
Tensile Strength, (PSI)	1000-5000	1000-3500	1000-2500	1000-2000	1000-3000	1000-5000	1000-2500	500-1400	1000-2000
Elongation %	300-700	300-700	150-450	150-450	200-500	200-700	100-350	90-600	100-200
Hardness Range (Durometer Shore A)	40-90	40-90	40-90	40-90	40-95	40-90	40-90	40-85	55-95
Specific Gravity (Base Material)	0.93	0.93	0.94	1.00	1.23	0.86	1.27	1.15	1.85
Adhesion to Metals	Excellent	Excellent	Excellent	Excellent	Excellent	Good To Excellent	Fair To Good	Excellent	Fair To Good
Adhesion to Fabrics	Excellent	Excellent	Good	Good	Excellent	Good	Fair To Good	Excellent	Good To Excellent
Tear Resistance	Good To Very Good	Good To Very Good	Fair	Fair	Good	Fair To Good	Fair To Good	Poor	Fair
Abrasion Resistance	Excellent	Excellent	Good To Excellent	Good	Excellent	Good To Excellent	Fair To Good	Poor	Good
Compression Set	Good	Good	Good	Good	Fair To Good	Good	Poor	Fair	Fair To Good
Dielectric Strength	Excellent	Excellent	Excellent	Poor	Good	Excellent	Good	Good	Good
Electrical Insulation	Good To Excellent	Good To Excellent	Good To Excellent	Poor	Fair To Good	Excellent	Good	Excellent	Fair To Good
Permeability To Gases	Fairly Low	Fairly Low	Fairly Low	Low	Low	Fairly Low	Low To Fairly Low	Fairly Low	Very Low
Acid Resistance									
Diluted	Fair To Good	Fair To Good	Fair To Good	Good	Excellent	Excellent	Fair To Good	Excellent	Excellent
Concentrated	Fair To Good	Fair To Good	Fair To Good	Good	Good	Excellent	Fair	Fair	Excellent
Solvent Resistance									
Aliphatic Hydrocarbons	Poor	Poor	Poor	Excellent	Fair To Good	Poor	Excellent	Poor	Excellent
Aromatic Hydrocarbons	Poor	Poor	Poor	Good	Fair	Poor	Good	Poor	Excellent
Oxygenated	Fair To Good	Fair To Good	Good	Poor	Poor	Good To Very Good	Poor	Fair	Poor
Lacquer Solvents	Poor	Poor	Poor	Fair	Poor	Poor To Fair	Fair	Poor	Poor To Fair
Resistance To:									
Swelling in Lubrication Oil	Poor	Poor	Poor	Very Good	Good	Poor	Excellent	Fair	Excellent
Oil and Gasoline	Poor	Poor	Poor	Excellent	Good	Poor	Excellent	Fair	Excellent
Animal and Vegetable Oils	Poor To Good	Poor To Good	Poor To Good	Very Good	Good	Good	Excellent	Good To Excellent	Excellent

Water Absorption	Very Good	Very Good	Good To Excellent	Good	Good	Very Good To Excellent	Good	Excellent	Very Good
Oxidation	Good	Good	Fair	Good	Very Good To Excellent	Excellent	Good	Excellent	Outstanding
Ozone	Poor To Fair	Poor To Fair	Poor	Fair	Very Good To Excellent	Outstanding	Excellent	Excellent	Outstanding
Sunlight Aging	Poor	Poor	Poor	Poor	Very Good	Outstanding	Good	Excellent	Outstanding
Heat Aging (Upper limit cont. service)	85°C(185°F)	85°C(185°F)	90°C(194°F)	115°C(239°F)	95°C(203°F)	145°C(293°F)	135°C(275°F)	235°C(455°F)	205°C(401°F)
1. Flame	Poor	Poor	Poor	Poor	Good	Poor	Poor To Fair	Fair To Good	Excellent
Heat	Good	Good	Fair To Good	Good	Very Good	Excellent	Very Good	Outstanding	Outstanding
Cold	Excellent	Excellent	Very Good	Fair To Good	Good	Excellent	Good To Very Good	Outstanding	Good

<sup>1.</sup> These evaluations are qualitative and comparative only. They should not be construed as recommendations., Specific compounding is required to optimize performance. Elastomer choices should be based upon a practical consideration of the potential fire hazards involved in each individual case and, if applicable, the results of appropriate flame tests.