

General Properties	Natural Rubber	Styrene Butadiene	Butyl	Neoprene	Ethylene Propylene	Nitrile	Fluoro-Carbon	Silicone	Fluoro-Silicone	Hydrogenated Nitrile
Nomenclature	NR	SBR	IIR	CR	EPDM	NBR	FKM	PVMQ	FVMQ	HNBR
Common Names		Buna-S		Chloroprene	Nordel	Buna-N	Viton, Fluorel	SI		Therban, Zetpol
ASTM D-2000 Classification										
	AA	AA	AA	BC	BA/CA/DA	BF/BG	HK	FE/GE	FK	BF
Durometer Range	30-90	40-95	35-95	30-90	40-90	40-90	60-90	20-80	40-85	70-90
Specific Gravity	0.93	0.93	0.92	1.23	.86-.88	1.00	1.5-1.9	.95-1.4	1.3-1.8	0.98
Tear Resistance	Good	Fair	Good	Good	Good	Fair	Good	Poor	Fair	Good
Abrasive Resistance	Excellent	Good	Good	Good	Good	Good	Good	Poor	Good	Good
Compression Set	Good	Good	Fair	Fair	Fair	Good	Very Good	Fair	Fair	Good
Electrical:										
Dielectric Strength	Excellent	Good	Excellent	Fair	Excellent	Poor	Fair	Excellent	Good	Fair
Electrical Insulation	Excellent	Good	Excellent	Fair	Excellent	Poor	Fair	Excellent	Good	Fair
Solvent Resistance:										
Aliphatic Hydrocarbons	Poor	Poor	Poor	Good	Poor	Excellent	Excellent	Poor	Fair	Good
Aromatic Hydrocarbons	Poor	Poor	Poor	Poor	Poor	Good	Excellent	Poor	Fair	Good
Oxygenated (i.e. Ketones)	Good	Poor	Good	Poor	Good	Poor	Poor	Fair	Poor	Poor
Lacquer Solvents	Poor	Poor	Poor	Poor	Good	Fair	Poor	Poor	Poor	Poor
Lubricating Oil	Poor	Poor	Poor	Good	Poor	Excellent	Excellent	Fair	Good	Very Good
Resistance to:										
Oil and Gasoline	Poor	Poor	Poor	Good	Poor	Excellent	Excellent	Fair	Good	Very Good
Vegetable and Animal Oils	Fair	Fair	Excellent	Good	Fair	Excellent	Excellent	Fair	Good	Very Good
Water Absorbtion	Very Good	Very Good	Very Good	Good	Excellent	Good	Very Good	Good	Very Good	Very Good
Oxidation	Good	Good	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Good
Ozone	Poor	Poor	Good	Excellent	Excellent	Poor	Excellent	Excellent	Excellent	Very Good
Sunlight Aging	Poor	Fair	Very Good	Very Good	Very Good	Poor	Very Good	Excellent	Very Good	Very Good
Heat Aging	Fair	Fair	Good	Good	Excellent	Very Good	Excellent	Excellent	Excellent	Excellent
Flame	Poor	Poor	Poor	Good	Poor	Poor	Good	Fair	Fair	Fair
Operating Temperatures:										
High	90C	100C	120C	120C	150C	110C	225C	225C	175C	150C
Low	-55C	-50C	-40C	-45C	-55C	-50C	-20C	-60C	-60C	-25C
Major Benefits:										
Advantages:	Good tear and abrasive properties, excellent resiliency	Low-cost all-purpose	Good Electrical Insulation	General Purpose-resistant to oils, ozone, weathering	Good resistance to heat, ozone and sunlight. Retains flexibility at low temperatures	Oil and Gasoline Resistant	Good for high temperature applications. Solvent and Chemical Resistant	Extreme Temperature Capabilities, High Heat or cold. Excels where weather, ozone, and sunlight are factors	Low Temperature Capability Chemical Resistance	Oil, Gas and Chemical Resistance

The above information should be used for general purpose only. Exact application should be carefully reviewed before final material selection.

Typical properties of each elastomer vary with durometer and type.