

Elastomer Guide 1

Common Name Base Polymer	Chemical Name	Material Designation (ASTM D-2000, SAE J 200 Classification)	ASTM D7-35, SAE J-14 & MIL-R-3065 (MIL-Std-417)	ASTM D-1418 Designation	Tensile Strength (PSI) Pure Gum	Black Loaded Stocks	Hardness Range (Durometer A)	Specific Gravity (Base Material)	Adhesion to Metals	Adhesion to Fabrics	Tear Resistance	Abrasion Resistance
Natural Rubber	Polyisoprene	AA	R(N)	NR	Over 3000	Over 3000	30-90	0.93	E	E	VG	E
SBR or GR-S or Buna S	Styrene Butadiene	AA	R(S)	SBR	Below 1000	Over 2000	40-90	0.94	E	G	F	G-E
Butyl	Isobutylene Isoprene	AA	R(S)	IIR	Over 1500	Over 2000	40-75	0.92	G	G	G	G
Butadiene	Polybutadiene	AA	R(S)	BR	Below 1000	Over 2500	40-80	0.94	E	G	G	E
EPDM or EP Rubber	Ethylene Propylene	BA, CA, DA	R(S)	EPDM	Below 1000	Over 2000	30-90	0.86	G	G	F	G-E
Neoprene	Chloroprene	BC, BE	SC	CR	Over 2000	Over 2000	15-95	1.23	E	E	G	VG
CPE	Chlorinated Polyethylene	BC, BE, CE	SC, SB	CM	Over 1500	Over 2500	60-90	1.16-1.32	F-G	F	F	G
Nitrile or NBR or Buna N	Acrylonitrile Butadiene	BF, BG, BK, CH	SB, SA	NBR	Below 1000	Over 2000	40-95	1.00	E	G	F	G
Urethane	Polyester/ Ether Urethane	BG	SB	AU, EU	3000 to 5000	3000 to 5000	30-75D	1.02-1.20	E	VG	E	O