



# Elastomer Selection Guide

POLYMER	BUTYL	NEOPRENE	ETHYLENE - PROPYLENE	EPICHLOROHYDRIN	FLUOROCARBON	FLUROSILICONE	CHLOROSULFONATED POLYETHYLENE	NATURAL	NITRILE	PERFLUORO - ELASTOMER	SILICONE	STYRENE BUTADIENE	URETHANE
ASTM D2000	AA, BA, CA	BC, BE	BA, CA, DA	CH	HK	FK	CE	AA	BF, BG	FFKM	FC, FE, GE	AA, BA	BG
ASTM D1418	IIR	CR	EPDM	CO, ECO	FKM	FVMQ	CSM	NR	NBR	-----	VMQ, PVMQ, MQ, PMQ	SBR	AU, EU
<b>PROPERTIES</b>													
HARDNESS RANGE	40-80	20-95	30-90	40-90	60-90	50-80	45-100	30-90	20-95	65-95	10-85	30-90	35-100
TENSILE STRENGTH (MAX PSI)	3000	4000	2500	2500	3000	1500	4000	4500	4000	2000	1500	3500	5000
TEAR RESISTANCE	G	G	F	F-G	G	P	G	E	G	F-G	F-G	F	E
ABRASION RESISTANCE	F	E	G	F-G	G	P	E	E	E	G	G	E	E
ELECTRICAL RESISTANCE	E	F	E	F-G	G	E	G	E	P-F	G	E	E	G
IMPACT RESISTANCE	G	G	G	G	G	F	G	E	F	G	E	E	G-E
ODOR	G	F-G	G	F-G	G	G	G	G-E	G	G	G	G	G
TASTE	F-G	F-G	G	F-G	F-G	G	F-G	F-G	F-G	G	G	F-G	G
NON STAINING	G	G-E	G	G	F-G	E	E	E	F-G	F-G	E	F-G	G
COMPRESSION SET	G	G	G-E	G	G-E	F-G	F-G	E	G	F	G-E	G	P
ELASTICITY	F-G	G-E	G-E	F	G-E	G	F-G	E	G	G	G-E	G	F
RESILIENCE	F	E	G	F-G	F	F	F	E	G	F	G	G	G
SERVICE TEMP. °F	-60+250	-40+250	-40+350	-40+225	-10+400	-80+300	-65+275	-20+175	-30+250	-35+554	-160+500	-50+225	-30+175
HEAT AGE RESISTANCE	G-E	G-E	G-E	G-E	E	E	G-E	F-G	G	E	E	G	G
FLAME RESISTANCE	P	G-E	P	F	E	E-NR	G-E	P	P	E	E-NR	P	P-G
PERMEABILITY TO GASES	E	G	G	E	E	P	G	F	G-E	F	P	F	G
<b>RESISTANCE TO</b>													
WEATHER	E	G	E	G	E	E	E	P-G	P	E	E	P	E
OXYGEN	E	E	E	G	E	E	E	G	G	E	E	F	G
OZONE	E	E	E	E	E	E	E	NR-F	F	E	E	NR	E
RADIATION	F	G	G	P-F	F-G	F-G	G	G	G	G	F-G	G	G
WATER	E	G	E	G	E	E	G	E	G	E	E	G-E	F-G
STEAM	G-E	F-G	G-E	NR	G-E	F-G	F-G	G	F-G	G	F-G	F	NR
ALKALI	E	E	E	F	E	G-E	E	E	G	E	E	F-G	P
ACID	E	E	E	F-G	G	G-E	E	E	G	E	G	F-G	P
OIL, GASOLINE, KEROSENE	NR	G	NR	G-E	G	E	G	NR	E	E	F	NR	F-G
BENZENE, TOLUOL	NR	P-F	NR	G-E	E	G-E	P-F	NR	G	E	NR	NR	F-G
ANIMAL, VEGETABLE OILS	G-E	G	G	E	E	E	G	NR-F	G	E	E	P-F	E
OXYGENATED SOLVENTS	E	F	G-E	F	NR	P	G	G	P	E	F-G	G	P
HALOGENATED SOLVENTS	NR	P	NR	E	E	NR	P	NR	F-G	E	NR	NR	G
ALCOHOL	G-E	E	G-E	F-G	F-E	F-G	E	G-E	F-G	E	F-G	G	G
SYNTHETIC LUBES (DIESTER)	NR	P	NR	G	E	E	P	NR	P	E	NR	NR	P
SILICATE HYDRAULIC FLUIDS	G-E	G	G-E	G	E	E	G	G-E	G	E	NR	G-E	NR
PHOSPHATE HYDRAULIC FLUIDS	E	F	E	NR	G-E	NR	F	G	P	E	G	G	NR

E = EXCELLENT G = GOOD F = FAIR P = POOR NR = NOT RECOMMENDED

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