

### Resistance Properties Of Various Elastomers

	Natural rubber	Buna-S	Buna-N	Ethylene Propylene	Butyl	Neoprene	Urethane	Thiokol	Silicone	Fluoro-silicone	Fluoro-elastomer (Viton)	Poly-acrylate	Kalrez
ASTM code	NR	SBR	NBR	EP	11R	CR	AU EU	-	Si	FSi	FPM	ACM	-
Hardness (Shore A)	30-90	40-90	40-95	40-80	20-80	20-90	50-90	50-80	10-90	40-80	60-90	50-90	80-90
Tensile Strength (p.s.i)	3000	3000	2500	2500	2000	3000	5000	1000	1400	900	2000	2000	2000
Tearing Strength	E	VG	G	G	VG	VG	E	R	N	N	G	G	G
Wear Resistance	E	E	G	G	G	G	VG	R	N	N	G	VG	G
Fire-proof Hyd. Fluids	N	N	N	VG	VG	R	N	R	G	VG	R-N	N	E
Lubricating Oils	N	N	G	N	N	G	VG	E	G	E	E	VG	E
Fuel Oils	N	N	G	N	N	R	VG	E	R	E	E	VG	E
Hydraulic Oils	N	N	E	N	N	G	VG	E	G	E	E	U	E
Vegetable Oils	N	R	E	R	E	G	VG	R	G	E	E	U	E
Animal Fats	N	R	E	R	E	G	VG	R	G	E	E	U	E
Petrol (Normal)	N	N	VG	N	N	R	VG	E	R	E	E	VG	E
Petrol (High Octane)	N	N	G	N	N	N	VG	E	N	E	E	G	E
Kerosene	N	N	VG	N	N	R	VG	E	R	E	E	VG	E
Aromatic Hydrocarbons	N	N	R	N	N	N	G	E	N	E	E	R	E
Aliphatic Hydrocarbons	N	N	VG	N	N	G	VG	E	R	E	E	VG	E
Water (under 80 c)	G	VG	VG	E	E	R	R-N	R	E	E	E	N	E
Water (above 80 c)	N	R	R	E	G	N	N	N	E	VG	G	N	E
Alcohols	G	G	VG	E	E	E	R	R	E	E	E	N	E
Ketones	N	N	N	G	VG	N	N	VG	G	N	N	N	E
Conc. Acids	N	N	N	R	G	N	N	N	R	G	VG	N	E
Diluted Acids	R	R	R	G	E	G	N	R	G	VG	E	N	E
Alkalis	G	G	R	VG	E	G	N	N	G	R	G	N	E
Chlorinated Solvents	N	N	R	N	N	N	R	VG	N	E	E	R	E
Ozone & Sunlight	R	R	R	E	E	VG	VG	VG	E	E	E	VG	E
Max. temp. at continuous service	70 C	05 C	105 C	135 C	120 C	105 C	70 C	65 C	230 C	205 C	230 C	175 C	288 C
Electrical Properties	E	VG	N	E	E	VG	G	R	E	E	E	N	E
Compression Set	VG	VG	VG	G	G	VG	N	N	E	VG	R	G	G
Flame Hesistant	No	No	No	No	No	Yes	No	No	No	No	Yes	No	Yes

E : Excellent

N : Not Recommended

R : Reasonable

VG : Very Good