

ELASTOMER COMPARISON CHART

| ELASTOMERS | NATURAL RUBBER | SBR | CHLOROPRENE | NBR | BUTYL | EPDM | POLYURETHANE | SILICONE | FLUOROCARBON |
|---------------------------------|----------------|-----|-------------|-----|-------|------|--------------|----------|--------------|
| PHYSICAL PROPERTIES | | | | | | | | | |
| TENSILE STRENGTH | 1 | 2 | 2 | 2 | 2 | 2 | 1+ | 4 | 3 |
| ELONGATION | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 3 |
| COMPRESSION SET | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 1 |
| RESILIENCE | 1+ | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 3 |
| ELECTRICAL RESISTIVITY | 1 | 1 | 3 | 4 | 1 | 1 | 2 | 1 | 2 |
| MECHANICAL RESISTANCE | | | | | | | | | |
| TEAR | 1 | 3 | 2 | 2 | 2 | 4 | 1 | 3 | 3 |
| ABRASION | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 2 |
| CUT GROWTH | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| TEMPERATURE RESISTANCE | | | | | | | | | |
| HEAT | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1+ |
| LOW TEMPERATURE | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 4 |
| ENVIRONMENTAL RESISTANCE | | | | | | | | | |
| WATER | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 |
| ACID | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 1 |
| ALKALI | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 3 |
| ALIPHATIC HYDROCARBONS | 4 | 4 | 2 | 1 | 4 | 4 | 1 | 2 | 2 |
| AROMATIC HYDROCARBONS | 4 | 4 | 4 | 2 | 2 | 3 | 3 | 3 | 1 |
| CHLORINATED SOLVENTS | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 3 |
| KETONES | 2 | 2 | 3 | 4 | 2 | 1 | 4 | 3 | 4 |
| ALCOHOL | 2 | 3 | 3 | 1 | 1 | 4 | 2 | 2 | 1 |
| LUBRICATING OILS | 4 | 4 | 2 | 1 | 4 | 4 | 2 | 4 | 2 |
| SYNTHETIC OILS | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 3 | 2 |
| HYDRAULIC OILS | 4 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 2 |
| FUELS | 4 | 4 | 2 | 1 | 4 | 4 | 1 | 3 | 1 |
| WEATHER | 3 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| OXIDATION | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1+ |
| OZONE | 4 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | 1+ |