

| BASE ELASTOMER E-Excellent G-Good F-Fair P-Poor H-High M-Medium L-Low | SAE J200-ASTM D-2000 CLASSIFICATION | DUROMETER | MAXIMUM TENSILE STRENGTH | EXPANSION % (MAX) | RESILIENCE | IMPACT | ABRASION RESISTANCE | TEAR RESISTANCE | MAXIMUM SERVICE TEMPERATURE (°F) | MINIMUM SERVICE TEMPERATURE (°F) | OIL RESISTANCE | FUEL RESISTANCE | WEATHER & UV RESISTANCE | OXIDATION | HEAT RESISTANCE | SWELL FACTOR | FLAME RESISTANCE | BONDING TO METAL | POSSIBLE APPLICATIONS |
|--|--|-----------|-----------------------------|-------------------|------------|--------|---------------------|-----------------|-------------------------------------|-------------------------------------|----------------|-----------------|----------------------------|-----------|-----------------|--------------|------------------|------------------|---|
| NATURAL RUBBER (POLYISOPRENE) | AA | 30-90 | 3500 | 650 | H | E | E | E | 180 | -60 | P | P | F | F | G | F | P | E | TIRES, GASKETS, BELTS, HOSES, SEALS, SHOCK MOUNTS, GROMMETS, BUMPERS |
| SYNTHETIC RUBBER (SYNTHETIC POLYISOPRENE) | AA | 40-80 | 2500 | 650 | H | E | E | G | 180 | -60 | P | P | F | F | G | E | P | E | IDENTICAL TO NATURAL RUBBER |
| BUTADIENE (POLYBUTADIENE) | AA | 40-90 | 2500 | 450 | H | G | E | G | 200 | -65 | P | P | F | G | F | E | P | E | HELPS TO PROVIDE RESILIENCE, BETTER LOW TEMPERATURE PROPERTIES AND ABRASION RESISTANCE |
| GRS/SBR (STYRENE BUTADIENE) | AA BA | 40-80 | 2500 | 500 | M | E | E | F | 180 | -60 | P | P | F | F | G | E | P | E | IDENTICAL TO NATURAL RUBBER |
| BUTYL; BROMOBUTYL; CHLOROBUTYL | AA BA CA | 40-90 | 2000 | 700 | L | G | F | G | 300 | -50 | P | P | E | E | E | E | P | G | ELECTRICAL INSULATION, SHOCK AND VIBRATION ABSORBER |
| EPDM (ETHYLENE PROPYLENE) | AA BA CA DA | 40-90 | 2500 | 600 | M | G | G | F | 300 | -70 | P | F | E | E | E | E | P | G | AUTO PARTS, ELECTRICAL INSULATION, DUST COVERS, WEATHER STRIPPING |
| NEOPRENE (CHLOROPRENE) | BC BE | 30-90 | 3000 | 600 | H | E | E | G | 225 | -40 | E | G | G | E | E | G | E | E | AUTOMOTIVE GASKETS AND SEALS |
| NITRILE (BUTADIENE ACRYLONITRILE) | BF BG BK | 40-95 | 3000 | 550 | L | G | E | G | 250 | -60 | E | E | G | F TO G | G | E | P | G | PETROLEUM RESISTANT HOSES, GASKETS AND SEALS, ROLLERS, O RINGS, SHOCK AND VIBRATION MOUNTS |
| ACRYLIC (POLYACRYLATE) | DF DH | 40-90 | 2000 | 350 | M | P | G | F | 350 | -5 | E | E | E | E | E | F | P | G | WHITE OR COLORED PARTS, SEALS, GASKETS, HOSE AND WIRE INSULATION |
| FLUOROCARBON | HK | 60-90 | 2000 | 300 | L | G | G | G | 500 | -25 | E | E | E | E | E | E | E | G | O-RINGS, SEALS, PACKINGS, DIAPHRAGMS, GASKETS |
| FLUROSILICONE | FK | 40-70 | 1500 | 350 | L | F | P | F | 400 | -90 | E | E | E | E | E | G | E | G | MUCH LIKE FLUOROCARBON |
| SILICONE (POLYSILOXANE) | FC FE GE | 40-80 | 1000 | 700 | M | F | P | F | 550 | -178 | G | P | E | E | E | E | E | E | PARTS SUBJECTED TO TEMPERATURE EXTREMESE, SEALS, GASEKTS AND O-RINGS |
| URETHANE (DI-ISOCYANATE POLYESTER) | BG | 50-90 | 4000 | 750 | L TO H | E | E | E | 200 | -65 | G | E | G | E | G | G | P | G | GREASE SEALS, HYDRAULIC ACCUMULATOR DIAPHRAGMS |
| EPICHLOROHYDRIN | DK DJ | 40-90 | 2000 | 350 | L TO H | G | F TO G | G | 300 | -15 TO -80 | E | E | G | G | G | G | F | G | GASKETS AND HOSE FOR PETROLEUM HANDLING, MOLDED PARTS WHERE LOW TEMPERATURE IS INVOLVED |