

POLYMER	NITRILE	FLUOROCARBON	SILICONE	FLUOROSILICONE	ETHYLENE PROPYLENE	NEOPRENE	HYDROGENATED NITRILE	PERFLUORO- ELASTOMER
ASTM D1418 designation	NBR	FKM	VMQ	FVMQ	EPDM	CR	HNBR	FFKM
STANDARD COLOR	BLACK	BLACK	RED/RUST	BLUE	BLACK	BLACK	BLACK	BLACK
ALTERNATE COLOR	VARIOUS	BROWN	BLACK	NONE	PURPLE	RED	GREEN	WHITE
DUROMETER RANGE	30 - 90	40 - 95	30-80	40 - 90	30 - 90	30 - 95	45 - 95	60 - 90
TEMP. RANGE, TYPICAL								
FAHRENHEIT - F	- 30 to +250	- 15 to + 400	- 65 to + 400	- 65 to + 350	- 50 to + 300	- 40 to + 250	- 30 to + 300	+ 5 to + 550
CELSIUS - C	- 35 to +120	- 25 to + 200	- 55 to + 200	- 55 to + 175	- 45 to + 150	- 40 to + 120	- 35 to + 150	- 15 to + 285
PHYSICAL PROPERTIES								
TENSILE STRENGTH, PSI	2100	1850	930	1875	1875	2375	2475	2400
ELONGATION %	460	190	220	250	285	325	275	180
COMPRESSION SET (resistance)	GOOD	GOOD-EXCELLENT	GOOD	GOOD	GOOD	FAIR-GOOD	GOOD	GOOD
MECHANICAL PROPERTIES								
IMPACT	FAIR	GOOD	FAIR	FAIR	GOOD	GOOD	GOOD	EXCELLENT
ABRASION RESISTANCE	EXCELLENT	GOOD	FAIR-POOR	FAIR	GOOD	EXCELLENT	EXCELLENT	EXCELLENT
TEAR RESISTANCE	GOOD	GOOD	POOR	POOR	GOOD	GOOD	GOOD	EXCELLENT
ENVIRONMENTAL RESISTANCE PROPERTIES								
WEATHER-SUNLIGHT AGING	GOOD-FAIR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	GOOD	GOOD	EXCELLENT
OXIDATION	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
OZONE CRACKING	FAIR-POOR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	FAIR	GOOD-FAIR	EXCELLENT
WATER	GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	GOOD	EXCELLENT
RADIATION	FAIR	GOOD-FAIR	EXCELLENT	EXCELLENT	GOOD-FAIR	GOOD-FAIR	FAIR	GOOD
TYPICAL FLUID RESISTANCE								
FUELS	GOOD	EXCELLENT	FAIR	EXCELLENT	POOR	FAIR-GOOD	EXCELLENT	EXCELLENT
OILS - PETROLEUM BASED	EXCELLENT	EXCELLENT	GOOD	EXCELLENT	POOR	FAIR-GOOD	EXCELLENT	GOOD
ACIDS	GOOD	GOOD	FAIR	GOOD	EXCELLENT	GOOD	GOOD	EXCELLENT
KETONES -OXYGENATED	POOR	FAIR	POOR	POOR	GOOD	FAIR	POOR	EXCELLENT
BRAKE FLUID NON-PETROLEUM BASE	POOR	FAIR	GOOD	FAIR-POOR	GOOD-EXCELLENT	FAIR-POOR	FAIR	GOOD
ALCOHOLS	GOOD	GOOD	FAIR-GOOD	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT

Polymer Comparison chart for guideline purposes, testing recommended prior to use in application.