

Compound Summary

Elastomer Types		Natural	Synthetic Polyisoprene	Styrene- Butadiene	Ethylene Propylene Diene Monomer	Acrylonitrile Butadiene Buna-N	Polychloro- prene Neoprene	Fluoro- Carbon Polymer Viton
ASTM Designation		NR	IR	SBR	EPDM	NBR	CR	FPM
Service Temp. Max.	°C	70	70	70	120	110	100	200
	°F	160	160	160	250	230	212	424
Service Temp. Min.	°C	-70	-70	-50	-50	-45	-45	-20
	°F	-95	-95	-60	-60	-50	-50	-5
Hardness Range	Sh. A	40 to 80	40 to 80	40 to 80	45 to 80	45 to 80	45 to 80	60 to 80
Tensile Strength	PSI	<= 2800	<= 3000	<= 2500	<= 2000	<= 2100	<= 2100	<= 1400
	Mpa	<= 19.25	<= 20.50	<= 17.25	<= 13.75	<= 14.50	<= 14.50	<= 9.50
Elongation at Break	%	<= 700	<= 700	<= 500	<= 500	<=450	<= 500	<= 250
Resistance to:								
Ozone, Uv, & Weather		Low to Med.*	Low to Med.*	Low to Med.*	Very Good	Low*	Good	Very Good
Abrasion		Very Good	Very Good	Very Good	Medium	High	Medium	Low to Med.
Tearing		Very Good	Very Good	Very Good	Medium	Medium	Med. to High	Low to Med.
Lubricating Oil		N/R**	N/R**	N/R**	N/R**	Very Good	Good	Very Good
Diesel Oil		N/R**	N/R**	N/R**	N/R**	Very Good	Low to Med.	Very Good
Hyd. Fluids & Petroleum		N/R**	N/R**	N/R**	N/R**	Good	Low to Med.	Very Good
Phosphate Esters		Low	Low	Low	Low to Med.	Low	Low to Med.	Very Good
Acid		Low to Med.	Low to Med.	Low to Med.	Very Good	Low	Good	Very Good
Alkali		Low to Med.	Low to Med.	Low to Med.	Very Good	Low	Good	Low
Water		Very Good	Very Good	Very Good	Very Good	Very Good	Good	Very Good

* Resistance can be improved by additives to rubber compound at time of compounding

** N/R = Not Recommended