

# VERTEX ELASTOMER SELECTION GUIDE

POLYMER TYPE	ASTM Desig.	Hardness Range	Tensile Max. PSI	Elongation Max. %	Compression Set	Maximum Temp	Minimum Temp.	Ozone See Below *	Petroleum Hydrocarbons	Tear Strength
<b>Polyisoprene</b>	IR	40 to 80 Shore "A"	3000	700	Excellent	158F	minus 85F	Fair to Good	N/R	Excellent
<b>Natural Rubber</b>	NR	40 to 80 Shore "A"	3000	700	Excellent	158F	minus 85F	Fair to Good	N/R	Excellent
<b>Ethylene Propylene Diene Monomer</b>	EPDM	40 to 80 Shore "A"	2100	550	Good	280F	minus 60F	Excellent	N/R	Good
<b>Styrene Butadiene</b>	SBR	40 to 80 Shore "A"	2500	500	Good	158F	minus 50F	Fair to Good	N/R	Excellent
<b>Neoprene</b>	CR	45 to 80 Shore "A"	2100	500	Good	212F	minus 40F	Good	Fair to Good	Very Good
<b>Nitrile*</b>	NBR	45 to 80 Shore "A"	2000	500	Good	250F	minus 40F	Fair	Excellent	Good

**NOTE - Due to inherent resistance properties, Nitrile Gaskets are time consuming, expensive and very difficult to splice.**

**NOTE - Ozone Resistance can be improved by chemical additions to the rubber compound.**



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