

**Nitrile Rubber Material Properties**

<b>Physical Properties</b>			
Ib./cu in.	0.036	Specific Gravity	1
Durometer Range	20 – 90	Resilience	Good
Tensile Strength (psi)	1,000 – 3,500+	Elongation (% reinforced)	400 – 600
Drift, Room Temp	Good	Compression Set	Good
Electrical Resistivity	Poor	Impermeability, Gas	Good

<b>Mechanical Properties</b>			
Impact Resistance	Fair	Abrasion Resistance	Excellent
Tear Resistance	Good	Cut Growth Resistance	Good
Tensile Strength (psi, 250°F)	700	Tensile Strength (psi, 400°F)	130
Elongation (% , 250° F)	120	Elongation (% , 400° F)	20

<b>Temperature Properties</b>			
Drift at 212° F	Excellent	Heat Aging at 212° F	Good
Flame Resistance	Poor to Fair	Temperature, Max, (°F)	250
Low Temp, Stiffening (°F)	30 to -20	Low Temp, Brittle Pt (°F)	-65

<b>Environmental Properties</b>			
Weather	Good	Oxidation	Fair to Good
Ozone	Poor	Radiation	Fair to Good
Water	Excellent	Acid	Good
Alkali	Fair to Good	Gasoline, Kerosene, etc.	Excellent
Benzol, Toluol, etc.	Good	Degreaser Solvents	Poor
Alcohol	Excellent	Synthetic Lubricants (Diester)	Fair to Good
Hydraulic Fluids, Silicates	Fair	Hydraulic Fluids, Phosphates	Poor

<b>Subjective Properties</b>			
Taste	Fair to Good	Non-staining	Poor to Good
Odor	Good	Rigid Material Bonding	Good to Excellent

**Note:** Property data shown are typical average values and will vary based on specific production lots and by size and product configuration. They should be used only as a guide to primary selection for the application of a given material and never for purchase specifications. All values shown are based on bone dry specimens.