



Synthetic Rubber (SBR) Material Properties

Physical Properties			
Ib./cu in.	0.034	Specific Gravity	0.94
Durometer Range	40 – 100	Resilience	Good
Tensile Strength (psi)	2,000+	Elongation (% reinforced)	450
Drift, Room Temp	Excellent	Compression Set	Good
Electrical Resistivity	Excellent	Impermeability, Gas	Fair

Mechanical Properties			
Impact Resistance	Excellent	Abrasion Resistance	Excellent
Tear Resistance	Fair	Cut Growth Resistance	Good
Tensile Strength (psi, 250°F)	1,200	Tensile Strength (psi, 400°F)	170
Elongation (% , 250° F)	250	Elongation (% , 400° F)	60

Temperature Properties			
Drift at 212° F	Good	Heat Aging at 212° F	Good
Flame Resistance	Poor	Temperature, Max, (°F)	275
Low Temp, Stiffening (°F)	0 to 50	Low Temp, Brittle Pt (°F)	-80

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

Subjective Properties			
Taste	Fair to Good	Non-staining	Poor to Good
Odor	Good	Rigid Material Bonding	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.