

**MILLATHANE® Millable Polyurethane Rubber Material Properties**

<b>Physical Properties</b>			
lb./cu in.	0.039	Specific Gravity	1.03
Durometer Range	25 - 90	Resilience	Good to Excellent
Tensile Strength (psi)	4,000 - 8,000	Elongation (% reinforced)	250 - 800
Drift, Room Temp	Good to Excellent	Compression Set	Excellent
Electrical Resistivity	Good	Impermeability, Gas	Good

<b>Mechanical Properties</b>			
Impact Resistance	Excellent	Abrasion Resistance	Excellent
Tear Resistance	Excellent	Cut Growth Resistance	Fair to Excellent
Tensile Strength (psi, 250°F)	1,800	Tensile Strength (psi, 400°F)	200
Elongation (% , 250° F)	300	Elongation (% , 400° F)	140

<b>Temperature Properties</b>			
Drift at 212° F	Excellent	Heat Aging at 212° F	Fair to Good
Flame Resistance	Poor to Fair	Temperature, Max, (°F)	230
Low Temp, Stiffening (°F)	-10 to -50	Low Temp, Brittle Pt (°F)	-60

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

<b>Subjective Properties</b>			
Taste	Good	Non-staining	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.