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SHEET RUBBER & ELASTOMERS

Common Name	Chemical Name	Durometer Range	Tensile Elong.	Temp Range °F	General Properties
Natural Rubber	natural Isoprene	20-100	3200 800	- 65 + 212	Excellent tear resistance, tensile strength, resilience and abrasion resistance. Used where a soft rubber seal is required. Resists most inorganic salts, ammonia, acids and alkalis.
Black Rubber **Red Rubber**	SBR Styrene Butadiene	40-100	700 300 700 300	- 65 + 250 - 65 + 250	Fair weather and ozone resistance. Good physical properties including abrasion resistance. Resists flow under compression-generally used for non-oil resistant, medium pressure applications.
C.I. Rubber	SBR Styrene Butadiene	40-100	700 300	- 65 + 250	Same as SBR except it is used where creeping in service indicates a reinforced sheet packing, and the stresses are usually static.
Butyl	SBR Styrene Butadiene	30-80	1500 500	- 40 + 300	Excellent gas impermeability, outstanding dielectric properties, high resistance to chemicals and acid, resists weathering.
EPDM	Ethylene Propylenediene	30-90	1650 450	- 90 + 350	Excellent resistance to heat, aging, oxidation, ozone, acids, alkalis, hydraulic fluid, good electrical resistively.
Buna-N	Nitrile Butadiene	20-90	1000 400	- 40 + 200	Excellent resistant under extreme exposure to petroleum oils, gasoline, aromatic gasses. Outstanding compression set and heat resistance.
Neroprene	Poly-Chloroprene	10-95	1000 400	- 40 + 200	Good oil and weather resistant properties. Excellent for mounting pads, diluted acids and alkaline applications.
Hypalon	Chloro-Sulfinated Polyethylene	50-95	2400 400	- 40 + 300	Excellent acid resistance such as concentrated sulfuric and hypochlorite solutions. Outstanding weather, oil, abrasion, flame and heat resistance
Urethane	Poly-Urethane	55-100	4000	- 40 + 250	Highest available abrasion resistance, tensile strength, and load-bearing capacity. Excellent resistance to oils.
Silicone	Dimethyl Polysiloxame	25-80		- 165 + 500	Outstanding high and low temperature range, odorless, tasteless, non-corrosive and non-contaminating. Resistant to compression set at high and low temperature ranges.
Viton	Flourinated Hydrocarbon	65-90	2250 300	- 40 + 400	Excellent hot oils, commercial fuels, solvents and chemicals resistance. Good physical properties.
Thiokol	Organic Polysulfide	20-80	Max. 1500	- 40 + 200	Excellent solvent resistance. Excellent weather resistance.
Teflon	Tetraflouro-ethylene		Over 2000	- 40 + 500	Excellent general chemical resistance. Excellent high temperature qualities. Outlasts other materials as a seal for steam.

This chart is offered only as a general guide, indicating the suitability of various elastomers for service in these chemicals and fluids. The ratings are based for the most part, on published literature of various polymer suppliers, rubber manufacturers, and in some cases, the considered opinion of experienced compounds. We cannot guarantee their accuracy nor assume responsibility for use thereof.

Other Materials

Common Name	General Properties
PURE GUM	Very high tensile & elongation strength. Compresses easily and recovers quickly. Excellent abrasion resistance. Good resilience and flexibility at low temperatures. Is non staining and resists many acids and alkalis. Stock .010 through 2” thick and 36” and 48” wide.
DIAPHRAGM SHEET	Is neoprene rubber with either cotton or nylon inserted fabric between layers of rubber. It has a wide range of applications where oil, grease and gasoline service are involved. Stocked thickness from 1/32” through 1/4” and can be laminated for special applications.
ASBESTOS	Is available in many shapes and sizes. Compressed sheet, braided rope, twisted valve stem packing and many more. It makes excellent seals for a wide range of applications. It seals air, water, steam, gas, oil, some acids, chemicals and many other liquids. It is very strong yet extremely pliable. COMPRESSED ASBESTOS SHEETS WOVEN ASBESTOS CLOTH BRAIDED FLAX PACKING TEFLON IMPREGNATED ASBESTOS VALVE STEM PACKING ASBESTOS WICK AND ROPE
CORK AND RUBBER COMPOSITION	Cork and Neoprene – Excellent compressibility oil resistant. Prevents water and air penetration. **Available in sheets 36” x 36”. 1/32” through 3/4” thick.**
VEGETABLE FIBRE SHEET	Excellent for gaskets and sealing flanges where temperatures do not exceed 250°F. Good for handling oil, hot or cold water and gasoline.
VELLUMOID SHEET	Tougher than cork and is resistant to gasoline, diesel & heating oils, lubricating oils and a wide variety of organic solvents.