



Description

Neoprene is an all-purpose polymer that can be compounded to achieve a range of desirable characteristics, including low compression set and good ame resistance. Can also be formulated with FDA-listed materials for good resistance to animal and vegetable oils. Generally resistant to moderate chemicals, greases, fats, and many oils and solvents. Not recommended for strong oxidizing agents, esters, ketones, chlorinated aromatics or nitro hydrocarbons.

Material	Neoprene
Common Names	Neoprene
Trade Names	Matchless - Compound No. AX-1060 Mirprene - Compound No. 1050
ASTM D-2000 Classification	BC, BE
Military (MIL STD 417)	SC
Chemical Denition	Polychloprene
General Characteristics	
Durometer Range (Shore A)	45 - 95
Tensile Range (P.S.I)	500 - 3000
Elongation (max. %)	600
Low Temperature Usage (F°)	+10° to -50°
High Temperature Usage (F°)	to 250°
Compression Set	Good
Resilience - Rebound	Good
Abrasion Resistance	Excellent
Tear Resistance	Excellent
Solvent Resistance	Good
Oil Resistance	Fair
Aging Weather - Sunlight	Good
Adhesion to Metals	Good to Excellent



Chemical	Neoprene Matchless- AX 1060 Mirprene-No- 1050
Acetaldehyde	2
Acetic Acid, Glacial	1
Acetylene	3
Acrylonitrile	1
Ammonia Anhydrous (liquid)	4
Ammonium Salts	4
Aniline	1
Aqua Regia	1
Argon	1
Benzaldehyde	1
Benzenesulfonic Acid	4
Boric Acid	4
Bromine Water	3
Butadiene	3
Calcium Salts	4
Carbon Dioxide (wet)	3
Cellosolve Acetate	1
Chloracetic Acid	1
Carbon Monoxide	4
Chlorine (wet)	1
Chloroform	1
Chlorosulfonic Acid	1
Chlorox	3
Cyclohexanone	1
Dibutyl Phthalate	1
Epichlorohydrin	1
Formaldehyde	2
Formic Acid	4
Furfuraldehyde	1
Hydrochloric Acid Concentrated	1
Hydrofluoric Acid 65% (cold)	1
Hydrogen Peroxide	4
Iodine	1
Isopropanol	3
Linoleic Acid	1
Liquid Oxygen	1
Magnesium Salts	4
Malathion	0
Mercury Vapors	4
Mesityl Oxide (Ketone)	1
Methyl Ethyl Ketone (MEK)	1
Methyl Methacrylate	1
Mono Ethanolamine	1
Nitrobenzene	1
Oleic Acid	2
Palmitic Acid	3
Perchloric Acid	3
Phenol	1
Propylene Oxide	1
Sacrylic Acid	0
Sodium Salts	3
Sulfuric Acid Concentrated	1
Tetrahydrofuran	1

Note: 4 - Recommend
3 - Minor to Moderate Effect
2 - Moderate to Severe
1 - Unsatisfactory
0 - Insufficient Data