



STANDARD SIZE O-RING ELASTOMERS

Over 450 standard O-Ring sizes are inventoried at Newby Rubber. The most common elastomer used is NITRILE 70 durometer (BUNA-N). Other elastomers are available as listed below:

(NITRILE BUNA-N) -90 durometer. Nitrile's excellent resistance to petroleum products has made this elastomer the most widely used elastomer in the seal industry. Nitrile compounds exhibit excellent compression set, tear and abrasion resistance. They have good mechanical and physical properties, and are resistant to most non-aromatic petroleum-based fluids and gases. Nitrile does not have good resistance to ozone, sunlight, or weather, unless compounded specifically.

FLUOROELASTOMER - 75 or 90 durometer. Fluoroelastomer has excellent mechanical and physical properties, good resistance to Petroleum Products, low compression set, and high temperature resistance. It can withstand prolonged exposure of -20 deg. F to +450 deg. F in fluid service, with limited exposures to much higher temperatures. They are good for vacuum service and low gas permeability.

CHLOROPRENE (NEOPRENE*) Neoprene is moderately resistant to petroleum based oils and weather (sunlight, ozone, and oxygen). Neoprene has good compression set characteristics. Temperature range of -20 deg. F to +250 deg. F. Excellent for sealing refrigeration fluids.

SILICONE - Silicone material is recommended for applications requiring a wide temperature range and good dry heat resistance. Its temperature range is from -60 deg. F to +450 deg. F, the widest of any commercial grade elastomer. Silicone has good weathering and ozone resistance, and moderate oil resistance.

ETHYLENE PROPYLENE (EPR) Good for systems involving hot water, steam, and phosphate ester fluids. They are also resistant to mild acids, alkalis, and ozone. Effective temperature range is -65 deg. F to 300 deg. F.

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