

BUTYL RUBBER (IIR)

BUTYL RUBBER (IIR) has very low permeability rate, good electrical properties, resistance to weathering and Ozone.

TEMP: -40⁰C to 120⁰C

Chemical Resistance: Hot Water, Steam, Ozone, Ageing, & Weather Resistance, Silicon Oil & Grease.

POLYTETRAFLUOROETHYLENE (PTFE-TEFLON ®)

PTFE exhibits outstanding chemical resistance to the harshest media, Non flammable, inert, self lubricating are some of its special properties.

TEMP: -200⁰C to 260⁰ C

Other Filled grades of PTFE viz. BRONZE, CARBON, GLASS, MOS₂ have better mechanical properties than virgin PTFE.

NATURAL RUBBER (NR)

The oldest rubber available having outstanding resistance to tear, abrasion and cut growth.

Chemical Resistance: Water Oxidation, Alcohol and Ketones, Moderate Resistance to Acids, Alkalis.

O-Rings are manufactured from over 15 different Polymers which include Nitrile (NBR), Fluorocarbon (Viton®), Silicon (VMQ), Fluorosilicone (FVMQ), Polyurethane, PTFE (Teflon®), Natural Rubber (NR), Ethylene Propylene (EPDM), Hydrogenated Nitrile Rubber (H-NBR), Carboxylated Nitrile Rubber(X-NBR), Styrene Butadiene Rubber (SBR), Perfluoroelastomer (FFKM), Chloroprene (Neoprene®).

ETHYLENE PROPYLENE RUBBER (EPDM)

EPDM is a Co-Polymer of Ethylene and Propylene and is mostly used in Break systems having Glycol based Fluids.

TEMP: -55⁰C to 150⁰C

Chemical Resistance: Hot Water and Steam, Glycol based brake fluids, Organic And Inorganic Acids, Phosphate Ester Based Fluids, Soda, Potassium, Silicon Oil and Grease, Ozone, Aging and weather resistant.

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ACRYLONITRILE BUTADIENE (NBR - NITRILE)

Nitrile Rubber (NBR) is the general term for Acrylonitrile Butadiene Polymer. Acrylonitrile content varies from 18 to 50%. Higher the Acrylonitrile content, better the resistance to fuel and oil, at the same time affecting elasticity & compression set.

TEMP: -30⁰C to 100⁰C

Chemical Resistance: Propane, Butane, Petroleum, Mineral Oil, Grease, Diesel Fuel, Fuel Oils, HFA, HFB, HFC Fluids, Dilute Acids, Alkali, Salt Solutions and Water.

CARBOXYLATED NITRILE (XNBR)

Carboxylated Nitrile has proven tear and abrasion resistance compared to NBR. It is often used for dynamic applications.

TEMP: - 30⁰C to 100⁰C

HYDROGENATED NITRILE (HNBR)

NBR compounds exhibits improved heat resistance to the general NBR compounds. They also possess superior mechanical properties particularly high strength.

TEMP: -40⁰C to 150⁰C

FLUOROCARBON (FKM - VITON ®)

FLUOROCARBON (FKM - VITON ®) has excellent resistance to High temperature, Ozone, Oxygen, Mineral Oils, Aliphatic and Aromatic Hydrocarbons and many chemicals.

TEMP: -20⁰C to 204⁰C

Chemical Resistance: Mineral Oil, Grease, Non Flammable Hydraulic Fluids, Aliphatic and Aromatic Hydrocarbons, Ozone Weathering, Aging, High Vacuum, Steam and Alcohol.

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SILICON (VMQ)

Silicon has best Cold flexibility, Excellent heat resistance, Good Insulating properties, Good Ozone and weathering resistance, as well being neutral in its properties.

TEMP: -50⁰C to 232 ⁰C

Chemical Resistance: Ozone, Aging, Weathering, Animal & Vegetable oil, Grease, Moderate Resistance to Mineral Oil.

FLUROSILICONE (FVMQ)

Fluorosilicone (FVMQ) offers improved fuel and oil resistance in comparison to regular Silicon (VMQ), Mechanical and Physical properties being the same.

TEMP: -70⁰C to 175⁰C

POLYURETHANE (AU)

POLYURETHANE have the highest Wear resistance, Tensile strength and Elasticity. They have high volume applications in seals for hydraulic cylinders.

TEMP: -30⁰C to 80⁰C

Chemical Resistance: Ozone, Aging, Mineral Oil, Aliphatic Hydrocarbons, Water (upto 50⁰C)

STYRENE-BUTADIENE RUBBER (SBR)

SBR previously known as 'BUNA S' was first produced as a replacement to natural rubber.

TEMP: -40⁰C to 105⁰C

Chemical Resistance: Water, Alcohol, Non-Mineral Oil fluid, Silicon oil and Grease, Weak Acids.

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CHLOROPRENE RUBBER (CR - NEOPRENE®)

Chloroprene popularly known as **NEOPRENE** exhibits good Ozone, Aging, chemical, Abrasion & Flex Fatigue Resistance.

TEMP: -40⁰C to 120⁰C

Chemical Resistance: Silicon Oil And Grease, Water and its solvents, Refrigerants, Ammonia and Carbon Dioxide, Ozone, Weathering and Aging.

CHLOROSULFONATED POLYETHYLENE (CSM - HYPALON ®)

Chlorine in the Polymer imparts resistance to Flame and Mineral Oils and also improves cold flexibility.

TEMP: -20⁰C to 120⁰C

Chemical Resistance: Oxidising Media, Water, Aging, Grease, Many Acids.

PERFLUOROELASTOMER (FFKM)

PERFLUOROELASTOMER (FFKM) exhibits unique resistance even in the harshest environments. It exhibits unbeatable resistance to Acids, Alkalis, Steam, Ketones.

TEMP: -25⁰C to 300⁰C

Chemical Resistance: Aliphatic, Aromatic and Chlorinated Hydrocarbons, Organic And In-Organic Acids, Water, Steam and Vacuum.

TETRAFLUOROETHYLENE - PROPYLENE (TFP-E)

TFE-P has excellent chemical resistance to a wide range of materials

TEMP: -5⁰C to 232⁰C

Chemical Resistance: Bases, Engine Oil, Steam, Radiation, Amines Phosphate Esters.

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