

Table of Standard Materials

Material	Description
Polychloroprene Rubber (CR)	Neoprene generally good ozone, aging & chemical resistance. Also has good mechanical properties over a wide temperature range.
Ethylene Propylene Rubber (EPM, EPR, EPDM)	EPM is a copolymer of ethylene propylene and EPDM is a tripolymer of ethylene, propylene and a diene third monomer used for cross linking.
Fluorosilicone (FVMQ)	Fluorosilicone is a silicone polymer chain with fluorinated side-chains for improved oil and fuel resistance. The mechanical and physical properties are very similar to those of silicone.
Acrylonitrile-Butadiene (NBR)	Nitrile rubber (NBR) is the general term for acrylonitrile-butadiene terpolymer. The acrylonitrile content of nitrile sealing compounds varies considerably (18% to 50%). Polymers with higher ACN content exhibit less swell in gasoline and aromatic solvents, while lower ACN polymers exhibit better compression set and low temperature flexibility.
Hydrogenated Nitrile (HNBR, HSN)	Hydrogenated nitrile was developed as an air-resistant variant of nitrile rubber. In HNBR, the carbon-carbon double bonds in the main polymer chain are saturated with hydrogen atoms in a process called "hydrogenation" that improves the material's thermal stability and oxidation resistance.
Polyurethane (AU,EU)	Polyurethane elastomers have excellent wear resistance, high tensile strength and high elasticity in comparison with any other elastomers.
Silicone Rubber (VMQ, PVMQ)	Silicones possess good insulating properties and tend to be physically neutral. However, silicone elastomers have relatively low tensile strength, poor tear and wear resistance.
Fluorocarbon (FKM, FPM)	Fluorocarbon has excellent resistance to high temperatures and broad range of chemicals. Permeability and compression set are excellent.
Polytetrafluoroethylene (PTFE)	Known as Teflon is best known for being impervious to virtually all fluids and gases over a wide range of temperatures.
Tetrafluoroethylene-Propylene (AFLAS)	This material is a copolymer of TFE and propylene. Its chemical resistance is excellent across a wide range of aggressive media. Polymer is sold under the trade name Aflas.
Highly Fluorinated Elastomer (Hi Fluor)	HiFluor is Parker's trade name for high performance fluoroelastomers. Material is between a traditional fluorocarbon and the perfluoroelastomers.
Perfluoroelastomer (FFKM)	Perfluoroelastomer is a high performance fluorocarbon with excellent chemical and heat resistance.

Note: The above table is a list of some standard base material offerings and is for reference only. DBR Ind., Inc. provides all available polymer military specifications, aerospace materials, NSF, USDA, UL, USP, FDA and many other approved materials for all markets.