

Polyurethane

Polyurethane (AU/EU) polymers exhibit high tensile strength, excellent abrasion and tear strength, making them the toughest of all elastomers. Compression set and heat resistance are inferior to other elastomers such as Nitrile. These materials may be suitable for hydraulic applications that have abrasive contaminants or shock loads. Ether based Urethanes (EU) are suited to lower temperature applications, whilst Ester Urethanes are offer improved abrasion, heat and oil swell resistance. The service temperature for these compounds is -40°C to 100°C.

May be used for	Should not be used for
Abrasion resistance Drive belts Ozone Petroleum fluids	Acids Alkalis Brake fluids High temperature Hot water Oxygenated solvents Poor compression set