



FlexiSeal Piston & Rod Seal Materials

The most popular PTFE fillers used for FlexiSeal rod & piston products are carbon fiber, fiberglass, aromatic polyester and graphite. Virgin PTFE is also popular for these products when conditions are mild.

0502 — Carbon Fiber Filled

Carbon fiber lowers creep, increases flex and compressive modulus and raises hardness. Coefficient of thermal expansion is lowered and thermal conductivity is higher for compounds of carbon fiber filled PTFE. Ideal for automotive applications in shock absorbers and water pumps.

0601 — Aromatic Polyester Filled

Aromatic polyester is excellent for high temperatures and has excellent wear resistance against soft, dynamic surfaces. Not recommended for sealing applications involving steam.

0203 — Fiberglass Filled

Glass fiber has a positive impact on creep performance of PTFE. It also adds wear resistance and offers good compression strength.

0301 — Graphite Filled

Since graphite is often used as a lubricant, it does not significantly increase the coefficient of friction of PTFE when used as a filler. The low friction allows the compound to be used when both shaft speed and pressure are high. Graphite also is chemically inert which enables its use in corrosive Medias.