



# THERMOPLASTIC ANTI-EXTRUSION RINGS

## Sealing Solutions for Demanding Environments

### THERMOPLASTIC SOLUTIONS

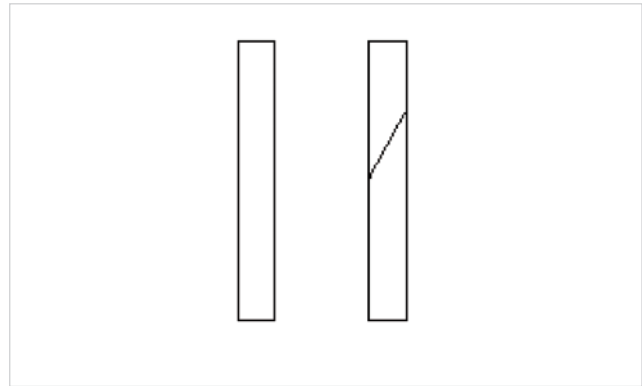
Greene, Tweed recommends that back-up systems be used for pressures above 1,500 psi, dependent on temperature, extrusion gaps and surfaces finish. Anti-extrusion rings can be supplied in a wide variety of standard or special designs. Standard materials held in stock are listed below.

#### Arlon® (PEEK)

A high-strength, 482°F (250°C) thermoplastic capable of withstanding steam and the aggressive conditions found downhole, Arlon resists virtually all organic and aqueous chemicals over a wide temperature range, with the exception of concentrated inorganic acids at high temperature. Arlon is highly wear resistant and tough while retaining its mechanical properties over a wide temperature range to 482°F (250°C). Greene, Tweed supplies virgin grade Arlon and grades reinforced with glass, carbon fiber and TFE. Greene, Tweed has back-up systems working at up to 40,000 psi or more with its GT Seal configuration.

#### Re-enforced TFE

Chemically inert at elevated temperatures and pressures, reinforced TFE has outstanding resistance to nearly all oilfield environments. Temperatures from -450°F to 600°F (-268°C to 315°C) can be achieved; however, TFE has only fair resistance to deformation under load. Greene, Tweed utilizes fillers such as graphite or glass fiber to improve TFE's resistance to cold flow.



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