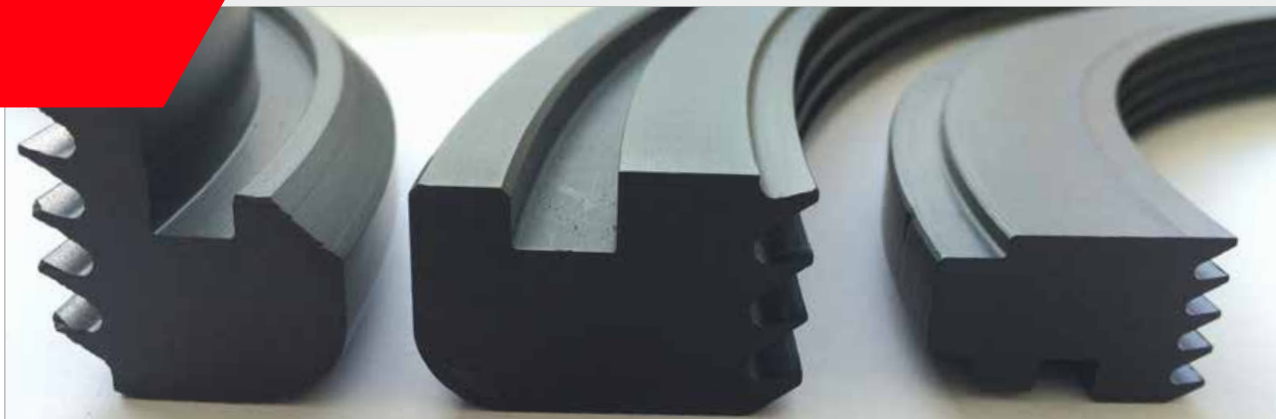


Fixed tooth polymer labyrinth seals

Advanced engineering plastics for turbo compressors



Do you want to improve compressor seal efficiency?

The Duratron® product family, and Ketron® PEEK materials can tighten compressor seal clearances. The rub tolerant design can prevent tooth profile deformation increasing performance and Mean Time Between Repairs. The products of the Advanced Materials Division of Mitsubishi Chemical Group (MCG) have excellent chemical corrosion properties over common industry standard aluminum seals.

Trends In turbo compressor market

- Higher temperature at increased loads
- Improved efficiency and reliability in compressor seals
- Reduced chemical corrosion
- Increased service life of seals
- Cost effective solutions, easy to manufacture

Key benefits

- Increased compressor efficiency
- Increased design capabilities
Fixed tooth polymer labyrinth seals
- Reduced downtime
- Lower cost in service
- NORSOK M-710 (sour gas aging)
compliance for Ketron® PEEK stock shapes

Customer value

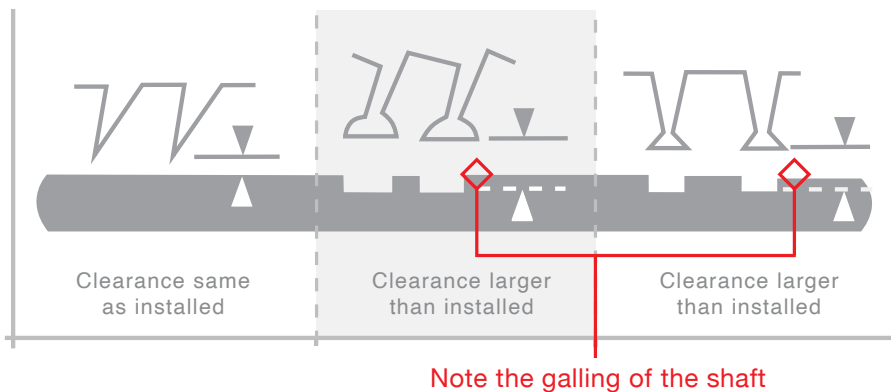
- Duratron® has continuous service temperatures up to 260°C / 500°F
- Ketron® PEEK has continuous service temperatures up to 248°C / 480°F
- Self lubricated materials for rub tolerant seals, flexing not bending
- High resistance to fuels, lubricants and chemicals
- Better physical properties than conventional aluminum seals
- Near net shapes, machining and molded parts

Common applications

- Fixed tooth polymer labyrinth seals

Fixed tooth polymer labyrinth seals

Rub tolerant seal design and performance



Typical labyrinth tooth designs after critical speeds

After exposure to critical speed the thermoplastic tooth will return to original shape due to the plastic “memory” of the engineering thermoplastic while the aluminum tooth remains damaged.

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