Challenge

Do you want to improve or at least maintain compressor seal efficiency?

Mitsubishi Chemical Advanced Materials’ family of Duratron® 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. Our materials also have excellent chemical corrosion properties over common industry standard aluminum seals.

Common Applications

- Fixed Tooth Polymer Labyrinth Seals

Customer Benefits

- Increased compressor efficiency
- Increased design capabilities
- Reduced downtime
- Lower cost in service
**Trends In Turbo Compressor Market**

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

**Mitsubishi Chemical Advanced Materials Added Value**

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

**Typical Labyrinth Tooth Designs After Critical Speeds**

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

All statements, technical information and recommendations contained in this publication are presented in good faith and are, as a rule, based upon tests and such tests are believed to be reliable and practical field experience. The reader, however, is cautioned, that Mitsubishi Chemical Advanced Materials does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Mitsubishi Chemical Advanced Materials’ products in any given application. Duratron and Ketron are registered trademarks of the Mitsubishi Chemical Advanced Materials group of companies.

Design and content created by Mitsubishi Chemical Advanced Materials and are protected by copyright law. Copyright © Mitsubishi Chemical Advanced Materials. All rights reserved.

MOM OG 002G | 9.5.19

Distributed by:

Polymershapes

Email: info@polymershapes.com
Call: 1 (866) 437-7427
www.polymershapes.com