



PERLAST®

The ultimate perfluoroelastomers for sealing applications where chemical resistance and high temperature performance are critical.

Product Overview – Oil & Gas

www.prepol.com

Perlast® from PPE

– *The ultimate range of perfluoroelastomers for sealing applications where chemical resistance and high temperature performance is critical.*



What is Perlast®?

The Perlast® range of perfluoroelastomers (FFKM) has been developed to seal in the most aggressive fluid environments and temperatures. Each Perlast® material grade is designed to overcome specific sealing challenges found in the oil and gas, chemical processing and flow management industries.

The Perlast® range includes perfluoroelastomers that not only withstand high temperatures but can resist steam, amines, polar solvents, aromatic hydrocarbons, oil, fuels and thousands of other chemicals. Within the product family there are materials designed to resist rapid gas decompression (RGD) for valves and oil equipment, endure extreme high temperatures for chemical processing applications, and operate in a variety of chemicals for use in rotating equipment and mechanical seals.

Why Perlast® from PPE?

Perlast® perfluoroelastomers push the boundaries of polymer technology for critical elastomer sealing in extreme temperature and pressures. PPE's design capability, coupled with industry-leading material compounding ensures the optimum sealing solution, reinforced by various industry qualifications.

- Design advice to optimize the seal for the intended operating conditions
- Shortest manufacturing lead-times
- Global sales, manufacturing and support coverage
- Expert technical support both before and after the sale

Why use Perlast®?

High temperature performance

- High temperature capability to 325°C (617°F)
- Engineering support to design non-standard and custom seals that operate over the full temperature range
- Third party certifications to NORSOK M710, NACE, ISO23936 & ISO10423 (API 6A)

Chemical resistance

- Broad chemical resistance including solvents, steam and amines
- Perlast® FFKMs are fully fluorinated and provide almost universal chemical resistance
- H₂S resistance - Perlast FFKMs are resistant to sour gas. (High concentration H₂S and high temperature test data is available)



Perlast® Products

Perlast® FFKM elastomers can be molded into a wide range of shapes, profiles and sizes to suit any sealing application.

Typically Perlast® elastomers are available as O-rings, X-rings, T-Seals, L-Seals, wipers, spring seals and many more profiles, including custom designed components and metal bonded parts.

Typical Applications

Perlast® materials are typically used in a wide range of critical sealing applications within the oil and gas and chemical processing industries including:

- Subsea and surface equipment
- Mechanical seals
- Completion tools
- Production tools
- Compressors
- Pumps
- Valves

Design Service and Material Testing

With over 40 years of experience in the oil and gas industry, PPE has the technical knowledge and expertise to provide sealing solutions for the most critical and challenging applications. PPE's team of application engineers and material scientists work closely with customers, from initial concept through design, testing, commissioning, and operation.

PPE maintains laboratories in the UK and Houston, Texas for polymer testing, including RGD resistance, fluid compatibility, material and seal failure analysis.



For More Information

For more information on RGD and sour gas resistance refer to PPE brochures, "Explosive Decompression Resistant Elastomers" and "Sour Gas Resistant Elastomers." Brochures, test reports, certificates and material datasheets are available to download from the PPE website: www.prepol.com/perlast



Precision Polymer Engineering

Europe, Middle East & Africa

Precision Polymer Engineering Ltd
Head office
Greenbank Road
Blackburn BB1 3EA
England

T: +44 1254 295400

F: +44 1254 680182

E: prepol.sales@idexcorp.com

Americas

PPE LLC
4702 N. Sam Houston Parkway West
Suite 100
Houston TX 77086
USA

T: +1 713 482 0123

F: +1 713 623 2332

E: prepol.sales-usa@idexcorp.com

Asia Pacific

Precision Polymer Engineering LLC
RM 3502-3504, Zhao Feng Plaza
No. 1027 Chang Ning Road
Shanghai 200050
China

T: +86 21 5241 5599 - 113

F: +86 21 5241 8339

E: prepol.sales-asia@idexcorp.com



Exceptional perfluoroelastomers for extreme low temperature sealing applications.



The ultimate range of elastomers for sealing applications in the world's most aggressive high pressure environments.

Local PPE sales agent:

www.prepol.com

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