



Precision Polymer Engineering

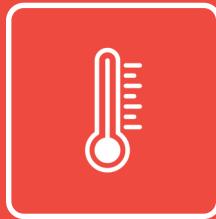
# PERLAST®

## SUPER-SIX FFKM Material Grades



# PERLAST®

A family of six Perlast® perfluoroelastomers (FFKM) for the most critical industrial applications, providing:



Extreme Hot To Cold  
Temperature Capability:  
+350 °C to -46 °C



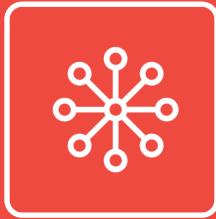
Excellent Chemical  
Resistance



Outstanding  
Mechanical Properties



FDA, USP Class VI, 3A  
18-03 Compliance



Rapid Gas  
Decompression

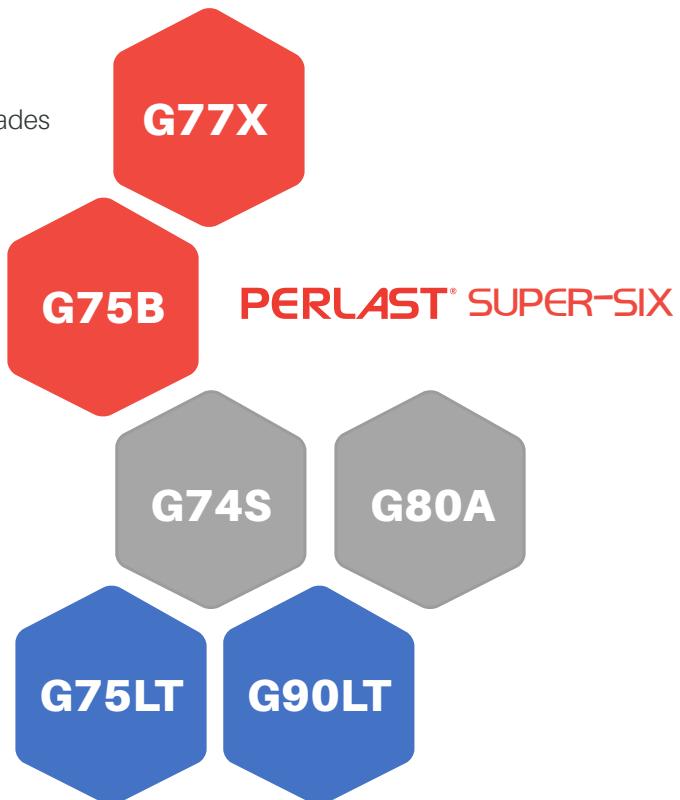


Technical Support

## OUR MOST POPULAR GRADES FOR INDUSTRIAL APPLICATIONS

The Perlast® range of perfluoroelastomer materials are at the leading edge of polymer technology. Developed by PPE to offer superior sealing solutions with enhanced performance and improved functionality, they have been proven in the field for over 20 years. These six materials are our most popular, used for the most demanding industrial applications:

- Perlast® Highest Temperature Grades
- Perlast® Food Approved / Chemical Resistant Grades
- Perlast® Lowest Temperature Grades



## WHERE IS PERLAST® USED?

Our Super Six Perlast® material grades are engineered to perform to the highest standard under the temperatures, pressures, chemical media considerations and mechanical stresses of the following industries and applications:



Food & Dairy



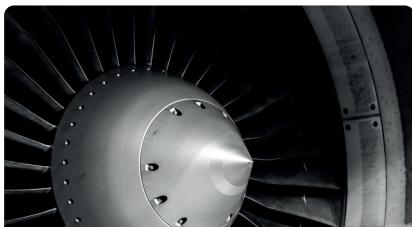
Pharmaceutical & Biomedical



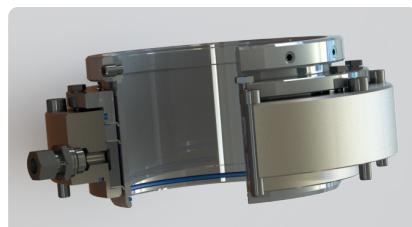
Chemical Processing



Energy



Aerospace



Mechanical Seals

## MATERIAL PROPERTIES

Material Grade	Hardness	Tensile Strength	Elongation at Break	100% Modulus	Comp. set 70h @ 200°C	Minimum Operating Temp.	Max. Short Term Temp.
Perlast® G77X	77 Sh. A	18.0 MPa	170%	9.1 MPa	8%	-15°C	+350°C
Perlast® G75B	85 Sh. A	18.0 MPa	125%	16 MPa	18%	-15°C	+325°C
Perlast® G74S	74 Sh. A	18.5 MPa	190%	11 MPa	12%	-15°C	+260°C
Perlast® G80A	81 Sh. A	19.0 MPa	150%	15 MPa	18%	-15°C	+310°C
Perlast® G75LT	78 Sh. A	11.0 MPa	160%	8.5 MPa	17%	-46°C	+275°C
Perlast® G90LT	88 Sh. A	17.6 MPa	165%	13.0 MPa	21%	-46°C	+275°C

**NEW**

## PERLAST® G77X

### THE LATEST GENERATION OF FFKM OFFERING OUTSTANDING THERMAL RESISTANCE

Specially formulated high-temperature resistant perfluoroelastomer (FFKM) compound designed for sealing components in:

- Chemical Processing
- Aerospace
- Mechanical Seals
- Valves
- Pumps

### KEY FEATURES

Class-leading high temperature capability (up to 350°C)

Exceptionally low compression set over extended periods

Long-term durability & reliability

Extend service/maintenance intervals

Lower cost of ownership



## PERLAST® G75LT

### PERFORMANCE AT EXTREMELY LOW TEMPERATURES

Perlast® ICE G75LT offers a unique combination of excellent chemical resistance and extreme low temperature performance.

- Chemical Processing - Aerospace - Oil & Gas



### KEY FEATURES

Excellent low temperature sealing capability (-46°C)

Low compression set

Excellent chemical resistance to a broad range of chemicals

Good mechanical properties

**Hot2Cold**

# PERLAST®

INNOVATION | PERFORMANCE | RELIABILITY

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Exclusively Manufactured by



Precision Polymer Engineering