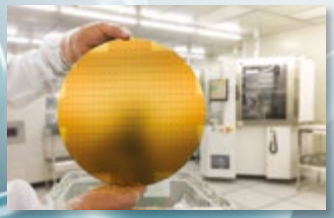
Isolast® PureFab® JPF24

COST-EFFECTIVE PERFLUOROELASTOMER FOR CHEMICAL RESISTANCE IN WET AND DRY SEMICONDUCTOR PROCESSES





A versatile compound that offers superior chemical resistance and mechanical properties for critical semiconductor processes, delivering durability and reliability in both wet and dry applications.

Isolast® PureFab® JPF24 is a general-purpose perfluoroelastomer (FFKM) compound, engineered for a wide range of static and dynamic applications in semiconductor manufacturing equipment.

It offers outstanding compatibility with aggressive chemicals, oils and solvents to reliably seal across a wide range of wet and dry processes.

With excellent mechanical strength and compression set resistance, Isolast® PureFab® JPF24 is an ideal material for seals used in critical process areas where both durability and chemical compatibility are required.

ISOLAST® PUREFAB®

The Isolast® PureFab® range is a dedicated portfolio of FFKM materials engineered for the most demanding semiconductor environments. Each grade is carefully optimized for specific application requirements, considering process chemistry, system location and tool complexity — delivering exceptional high-purity sealing performance in plasma environments and under high-temperature conditions.

Features and Benefits

- Highly resistant to process chemicals, withstanding acids and aggressive plasma process byproducts
- Outstanding compatibility with oils and solvents to improve reliability in wet process chemistries, cleaning agents and vacuum pump oils
- High mechanical strength for improved static and dynamic sealing ability and reduced maintenance requirements
- Exceptional long-term compression set maintains seal integrity over long service intervals and thermal cycles
- Cost-effective and available manufactured in a range of designs, including O-Rings and custom components

Application Examples

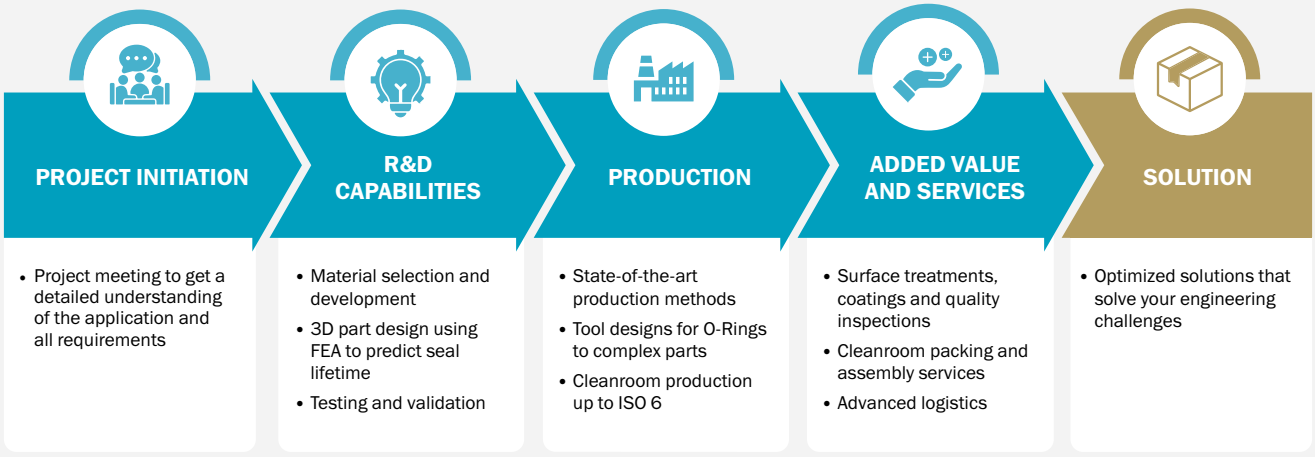
- Dynamic or static general-purpose seals and components within wet benches, furnaces and transfer chambers
- Chamber lid and gas inlet and outlet seals
- Slit valve door seals

ISOLAST® PUREFAB® JPF24

General Data	Isolast® PureFab® JPF24
Elastomer Type	FFKM
Color	White

Properties	Test Method	Results
Hardness (Shore A)	ASTM D2240	80
Tensile Strength (MPa)	ASTM D412	15.2
Elongation at Break (%)	ASTM D412	154
Modulus 100% (MPa)	ASTM D412	8.8
Compression Set (%) 72h @ +200 °C / +392 °F	ASTM D395	21
Continuous Service Temperature		-5 °C to +270 °C / +14 °F to +518 °F

TOGETHER WE DEVELOP YOUR POLYMER SOLUTION



Partner with Trelleborg to benefit from local specialist support, global reach and dedicated regional semiconductor experts. These three pillars ensure best in class service levels, from design, prototyping and delivery through to serial production.

For more information and contact details visit: www.trelleborg.com/seals

The information in this publication is intended for general reference only and not for specific applications. Customers must satisfy themselves with the suitability of a product and material for their individual applications.

Color variations, including dark spots, are a normal result of the polymer curing process and do not indicate the presence of foreign matter or negatively impact performance, reliability or cleanliness.

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