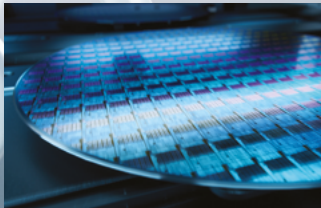


Isolast® PureFab® JPF22

**CHEMICAL-RESISTANT PERFLUOROELASTOMER FOR WET
PROCESSES AND ECD MANUFACTURING**



Enhanced compatibility with amine-based chemicals and plasma process gases extends component lifetime in electrochemical deposition and other wet processes.

Isolast® PureFab® JPF22 is a high-performance perfluoroelastomer (FFKM) engineered for demanding semiconductor applications, extending service life and maximizing process yields for Electrochemical Deposition (ECD), Chemical Mechanical Planarization (CMP) and other wet processes.

Its formulation gives outstanding compatibility with aggressive process chemicals, steam and amine-based Atomic Layer Deposition (ALD) precursors to maintain sealing performance for longer.

Enhanced plasma resistance and particulation performance in a wide range of process gases ensure Isolast® PureFab® JPF22 provides long-term sealing ability in challenging processing environments.

Features and Benefits

- Optimized mechanical performance and low compression set through reinforcing synthetic filler system
- Excellent resistance to aggressive amine-based chemicals and common dry process gases in temperatures up to +220 °C/+428 °F
- Higher process yields from low trace metal content
- Extended service life and reduced contamination risk through minimized particulation and weight loss
- High-purity formulation with extremely low leachables in accordance with SEMI F40/F57

Application Examples

- Seals for Electrochemical Deposition (ECD), such as Wafer Seals
- Solutions for Chemical Mechanical Planarization (CMP) and wet etching
- Components for ashing/stripping, plasma etching, Chemical Vapor Deposition (CVD) and Plasma-enhanced Chemical Vapor Deposition (PECVD)

ISOLAST® PUREFAB®

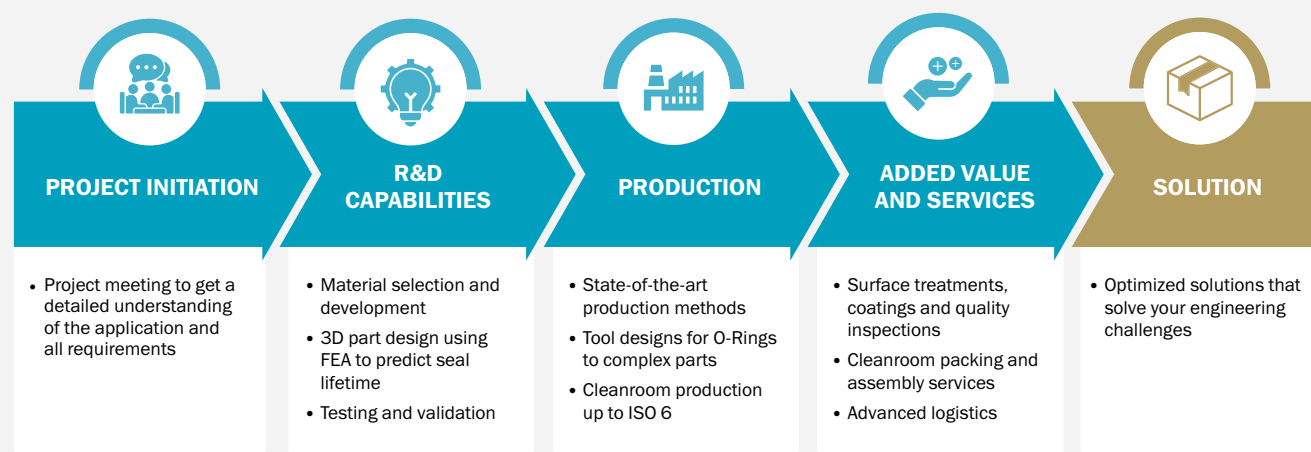
The Isolast® PureFab® range is a dedicated portfolio of FFKM materials engineered for the most demanding semiconductor environments. Each grade is carefully optimized for specific application requirements, considering process chemistry, system location and tool complexity — delivering exceptional high-purity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

ISOLAST® PUREFAB® JPF22

General Data		Isolast® PureFab® JPF22
Elastomer Type		FFKM
Color		Beige

Properties	Test Method	Results
Hardness (Shore A)	ASTM D2240	80
Tensile Strength (MPa)	ISO 37	15.7
Elongation at Break (%)	ISO 37	152
Modulus 100% (MPa)	ISO 37	10.2
Compression Set (%)		
72h @ +200 °C/+392 °F	ASTM D395	23
Continuous Service Temperature		Up to +220 °C/+428 °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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