TRELLEBORG
SEALING SOLUTIONS

Isolast® Fab Range™ J9650

Superior sealing
for high temperature applications

Your Partner for Sealing Technology

Isolast® Fab Range™ J9650

The Isolast® Fab Range™ offers high specification sealing compounds, exclusively formulated for the semiconductor industry. The special formulations help reduce downtime and improve production efficiency by extending seal life. These high-performance perfluoroelastomers are virtually inert and demonstrate almost universal chemical compatibility, giving real benefits and cost advantages in semiconductor applications.

Isolast® J9650 has been specifically developed for high-temperature wafer processing applications and exhibits minimal outgassing at continuous operating temperatures up to 320 °C / 608°F.

Features:

- Ultra-high purity
- Superior resistance to thermal degradation
- Extremely low metal cation extractables
- Minimal anion impurities
- Long-term low compression set
- Almost universal chemical resistance
- Clean and contaminant-free sealing surfaces
- Minimal outgassing at elevated temperatures
- Available as standard and non-standard O-Rings, custom-molded designs and bonded products

Applications:

Isolast® J9650 is recommended for use at continuous operating temperatures up to 320 °C / 608 °F in:

- Rapid thermal processing
- Chemical Vapor Deposition (CVD)
- Diffusion processing
- Dry plasma etching
- Dry ashing
- Metalization
- Annealing

Isolast® Fab Range™
J9650 Compound Data

Compound No.:		**J9650**		
Elastomer base:	DIN ISO 1629	**FFKM Ultra Pure**		
Hardness:	DIN 53 505	**75 +/- 5 Shore A**		
Color:		**black**		
Specific gravity:		DIN 53 479	g/cm³	2.01 ± 0.03
Tensile strength:		DIN 53 504	MPa N/mm² / psi	18.3 / 2,654
Elongation at break:		DIN 53 504	%	119
Compression set:	72 h / 200 °C / 392 °F	DIN ISO 815 Typ B	%	14
Service temperature:		DIN ISO 1629	°C / °F	-15 / +320 +5 / +608

Material properties are average values resulting from tests, as specified, on standard test samples. The values are for guidance only. It is the responsibility of the user to test material for suitability within a specific application. Information is correct at time of publication.

Trelleborg Sealing Solutions offers to the semiconductor industry:

- Quality levels to ISO 9001-2000 including 100% inspection and zero defects
- Wash and pack to class 100 standards
- Leading-edge in-house polymer development test capability
- Sealing solutions using our extensive design facilities, including material specific non-linear Finite Element Analysis (FEA)
- Comprehensive technical support and after-sales service through the global Trelleborg Sealing Solutions network

www.tss.trelleborg.com

TRELLEBORG
SEALING SOLUTIONS

99GBP8011EE0308