Perlast® G67P

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

A translucent beige compound with semi-crystalline perfluoropolymer nano-filler, specially developed to meet the demands of the semiconductor and bio-analytical industries. Compatible with fluorine based chemistries and universally suitable for both wet and dry semiconductor processes including Lithography, Plasma, PVD, CVD, Etch, Stripping and Cleaning.
Perlast® G67P combines a fully fluorinated polymer backbone, a fully fluorinated nano-filler system (no inorganic fillers) and a highly fluorinated cross-linking process, which results in a perfluoroelastomer with unrivalled purity and chemical resistance.
Perlast® G67P has a significantly lower compressive modulus than traditional perfluoroelastomers, making it highly compliant. So for a given compression, it exhibits a low reaction force, this results in lower stress on the seal, which leads to longer life expectancy.
Key Attributes
Exceptionally pure - does not contain any inorganic fillers which may cause particulation problems.
Excellent chemical and temperature resistance.
Excellent mechanical properties.
Extremely low out-gassing properties making it ideal for vacuum sealing applications.
High sealing efficiency.
High material compliance reduces surface permeation.
Reduced first wafer effect.
Lower cost of ownership.
Typical Applications
Dynamic seals
Static seals
Wafer-handling products

General Information	
Filler / Reinforcement	Organic filler
Features	The degassing effect is low to no High purity Good chemical resistance Heat resistance, high
Uses	Valve/valve components High temperature application Seals Accessories
Appearance	Translucent Beige

Hardness	Nominal Value	Test Method
Durometer Hardness (Shore A)	63	ASTM D2240, ISO 7619
IRHD Hardness	60 - 70	ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.45	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	18.3	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	330	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
200°C, 24 hr	35	%	ASTM D395, ISO 815
204°C, 70 hr	41	%	ASTM D395, ISO 815

Thermal	Nominal Value	Unit
Maximum Operating Temperature	275	°C
Coefficient of Linear Thermal Expansion	5.20E-4	

Additional Information
Minimum Operating Temperature: -15°C (+5°F)

Recommended distributors for this material

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