Perlast® G74P

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® G74P 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, chemical resistance and mechanical properties.
Perlast® G74P exhibits extremely low out-gassing properties, making it ideal for use in vacuum applications.
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 material compliance reduces surface permeation.
Reduced first wafer effect.
Lower cost of ownership.
Typical Applications
Dynamic seals
Static seals
Wafer-handling products

General Information	
Features	The degassing effect is low to no High purity Good chemical resistance Heat resistance, high Thermal stability, good
Uses	Electrical/Electronic Applications Seals Accessories
Appearance	Beige Clear/transparent

Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	74		ASTM D2240
IRHD Hardness	70 - 80		ASTM D1415, ISO 48
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	5.80	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	20.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	260	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
200°C, 24 hr	24	%	ASTM D395, ISO 815

204°C, 70 hr	38	%	ASTM D395, ISO 815

Thermal	Nominal Value	Unit
Maximum Operating Temperature	275	°C
Coefficient of Linear Thermal Expansion	5.70E-4	

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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