

## Precision Polymer Engineering Perlast® G74P Translucent Perfluoroelastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

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. Applications: Dynamic seals: gate valves; door seals; pendulum valves; ISO valves; bonded gates and lip seals. Static seals: O-rings; body seals; chamber lid seals; cathode assembly seals; electro-static-chuck seals; flange fittings. Wafer-handling products: end effector pads; vacuum suction pads. Wet and dry semiconductor processes: lithography; plasma; PVD; CVD; etch; stripping; cleaning.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Precision-Polymer-Engineering-Perlast-G74P-Translucent-Perfluoroelastomer.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Perlast-G74P-Translucent-Perfluoroelastomer.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	ASTM D2240
	70 - 80	70 - 80	°IRHD; ASTM D1415
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D412
Elongation at Break	255 %	255 %	ASTM D412
100% Modulus	0.00580 GPa	0.841 ksi	ASTM D412
Compression Set	24 %	24 %	24 hours @ 200°C; ASTM D395
	46 %	46 %	70 hours @ 204°C; ASTM D395

Thermal Properties	Metric	English	Comments
CTE, linear	570 µm/m-°C	317 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	275 °C	527 °F	
Minimum Service Temperature, Air	-15.0 °C	5.00 °F	

Descriptive Properties	Value	Comments
Color	translucent beige	

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