

DuPont Performance Polymers Kalrez® 9500 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez® 9500 perfluoroelastomer parts are a tan product for Deposition, Ash/Strip and Conductor (Poly/Metal) Etch processes. It has been specifically designed for use in applications where ozone is used for processing, e.g. SACVD, PECVD ultra-low K (BLOK™), and where the plasma environment is more “chemical”, i.e., where oxygen and fluorine radicals are more dominant. Kalrez® 9500 exhibits excellent resistance to CVD and ash/strip process chemistry, i.e., ozone, ammonia and water vapor. It also offers outstanding thermal stability, very low outgassing and excellent mechanical strength and is well suited for both static and dynamic sealing applications. A maximum continuous service temperature of 310 °C is suggested. Kalrez® 9500 can also withstand short-term excursions up to 325 °C. Ultrapure post-cleaning and packaging is standard for all Kalrez® 9500 parts. Features/Benefits Excellent resistance to CVD and ash/strip process chemistry (ozone, ammonia, water vapor, etc.) Low erosion rate and ultra-low particle generation in radical dominant oxygen and fluorine-based plasmas Excellent thermal stability Very low outgassing and metals content Excellent mechanical strength Suggested Applications Gas inlet/orifice/mixing block seals Chamber lid seals Isolation valve seals Bonded gate valves/slit valve door seals

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-9500-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Plied slab; ASTM D2240
Hardness, Shore M	79	79	O-ring; ASTM D1414, ASTM D2240
Tensile Strength at Break	17.5 MPa	2540 psi	ASTM D412
Elongation at Break	205 %	205 %	ASTM D412
100% Modulus	0.00950 GPa	1.38 ksi	ASTM D1414, ASTM D412
Compression Set	20 %	20 %	ASTM D1414 and ASTM D395B
	@Temperature 204 °C, Time 252000 sec	@Temperature 399 °F, Time 70.0 hour	
	36 %	36 %	
	@Temperature 250 °C, Time 252000 sec	@Temperature 482 °F, Time 70.0 hour	ASTM D1414 and ASTM D395B
	59 %	59 %	ASTM D1414 and ASTM D395B
	@Temperature 310 °C, Time 252000 sec	@Temperature 590 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	310 °C	590 °F	DuPont Test Method

Descriptive Properties	Value	Comments
------------------------	-------	----------

Descriptive Properties	Value	Comments
------------------------	-------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China