

DuPont Performance Polymers Kalrez® 8900 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez® 8900 perfluoroelastomer parts are a black product for all thermal processes, e.g., oxidation, diffusion furnace, metal CVD, ALD and LPCVD. It offers outstanding thermal stability, very low outgassing and excellent (low) compression set properties. Kalrez® 8900 parts exhibit excellent retention of physical properties at elevated temperatures, have excellent mechanical strength and are well-suited for both static and dynamic sealing applications. A maximum continuous service temperature of 325 °C is suggested. Short excursions to higher temperatures may also be possible. Ultrapure post-cleaning and packaging is standard for all Kalrez® 8900 parts. Features/Benefits Outstanding thermal stability Excellent (low) compression set properties Very low outgassing properties Very low moisture content Excellent retention of physical properties at elevated temperatures Excellent resistance to fluorine gas Suggested Applications Quartz Tube Seals Plenum Seals Chamber Seals Fittings Center Ring Seals .

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-8900-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	Pellet; ASTM D2240
Hardness, Shore M	82	82	O-ring; ASTM D1414, ASTM D2240
Tensile Strength at Break	20.75 MPa	3010 psi	ASTM D412
Elongation at Break	137 %	137 %	ASTM D412
100% Modulus	0.01221 GPa	1.771 ksi	ASTM D412
Compression Set	9.0 %	9.0 %	ASTM D1414 and ASTM D395B
	@Temperature 204 °C, Time 252000 sec	@Temperature 399 °F, Time 70.0 hour	
	32 %	32 %	
	@Temperature 300 °C, Time 252000 sec	@Temperature 572 °F, Time 70.0 hour	ASTM D1414 and ASTM D395B
	59 %	59 %	ASTM D1414 and ASTM D395B
	@Temperature 325 °C, Time 252000 sec	@Temperature 617 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	325 °C	617 °F	DuPont Test Method

Descriptive Properties	Value	Comments
Color	Black	

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