

DuPont Performance Polymers Kalrez® 9100 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez® 9100 perfluoroelastomers parts are an amber translucent product for PV cell manufacturing processes requiring resistance to fluorine-based plasma including amorphous/microcrystalline silicon thin film deposition. It exhibits very low weight loss and ultra-low particle generation in fluorine-based plasma, e.g., NF₃, F₂, etc. It also offers excellent resistance to dry process chemistry and has excellent thermal stability, compression set and outgassing properties. Kalrez® 9100 has good mechanical strength properties and is well suited for both static and dynamic sealing applications. A maximum continuous service temperature of 300 °C is suggested.

Features/Benefits Very low weight loss and ultra-low particle generation in fluorine-based plasma Excellent resistance to dry process chemistry Excellent thermal stability Excellent (low) compression set and outgassing properties Suggested Applications Gas valve/slit valve door seals Gas inlet/orifice seals Isolation valve seals Substrate handling pads Chamber lid seals

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-9100-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore M	74	74	ASTM D1414, ASTM D2240
Compression Set	17 % @Temperature 204 °C, Time 252000 sec	17 % @Temperature 399 °F, Time 70.0 hour	ASTM D1414 and ASTM D395B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 °C	572 °F	DuPont Test Method

Descriptive Properties	Value	Comments
Color	Translucent Amber	

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