

DuPont Performance Polymers Kalrez® 8085 Gas Deposition Compound

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

Material Notes:

Kalrez® Sahara™ 8085 is a new, specialty compound specifically developed for gas deposition applications, i.e., HDPCVD, PECVD, SACVD, etc. It has been specifically formulated for minimal particle generation in NF3 plasma. Sahara™ 8085 exhibits very low particle generation and low weight loss in oxygen and fluorine plasma, has excellent mechanical properties and is well-suited for both static and dynamic sealing applications (e.g., bonded slit valve doors, bonded gate valves, gas inlets, gas orifice seals, gas feedthrough seals, etc.) A maximum continuous service temperature of 240°C is suggested. Kalrez® Sahara™ 8085 can also withstand short-term excursions up to 275°C.

Ultrapure post-cleaning and packaging is standard for parts made from Kalrez® Sahara™ 8085. Information provided by manufacturer. This former DuPont Dow Elastomers product line is now produced by DuPont Performance Elastomers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-8085-Gas-Deposition-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore M	82	82	AS568A K214 O Rings
Tensile Strength, Ultimate	16.3 MPa	2360 psi	ASTM D412 (dumbbells)
Elongation at Break	159 %	159 %	ASTM D412 (dumbbells)
100% Modulus	0.00750 GPa	1.09 ksi	ASTM D412 (Dumbbells)
Compression Set	42 % @Temperature 204 °C	42 % @Temperature 399 °F	70 hr; AS568A K214 O-rings

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	240 °C	464 °F	Continuous Service
	275 °C	527 °F	Max Excursion Temperature

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