

## DuPont Performance Polymers Kalrez® AeroSeal™ 7800 Fluoroelastomer

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

### Material Notes:

Kalrez® AeroSeal™ 7800\* perfluoroelastomer parts are a specialty black product that meets the requirements of Aerospace Material Specification (AMS) 7257. It offers outstanding thermal stability and compression set resistance along with excellent seal force retention properties. It also offers excellent resistance to High Thermo-Oxidative Stability (HTS) gas turbine engine lubricating oils and has excellent response to temperature cycling effects. In some high temperature aerospace applications, fluoroelastomers and perfluoroelastomers can cause corrosion in the stainless steel and titanium O-ring grooves. In DuPont tests, Kalrez® AeroSeal™ 7800 parts minimized the corrosion of the titanium and stainless steel versus a typical high temperature perfluoroelastomer seal. (Figure 1) Kalrez® AeroSeal™ 7800 parts have good mechanical properties and are well suited for both static and dynamic sealing applications. A maximum temperature of 325°C (617°F) is suggested. Short excursions to higher temperatures may also be possible. Performance Features/Benefits Outstanding thermal stability and compression set resistance Excellent seal force retention properties Excellent resistance to high thermo-oxidative stability (HTS) gas turbine engine lubricating oils Excellent response to temperature cycling effects Excellent mechanical properties Low corrosion on metals after exposure to high temperature

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Kalrez-AeroSeal-7800-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-AeroSeal-7800-Fluoroelastomer.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength at Break	20.1 MPa	2920 psi	ASTM D1414, ASTM D412
Elongation at Break	150 %	150 %	ASTM D1414, ASTM D412
100% Modulus	0.0113 GPa	1.64 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	
	52 %	52 %	ASTM D1414 and ASTM D395B
	@Temperature 300 °C, Time 252000 sec	@Temperature 572 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	325 °C	617 °F	DuPont Test Method
Minimum Service Temperature, Air	-3.00 °C	26.6 °F	Retraction Temperature, Tr10; ASTM D1329

Descriptive Properties	Value	Comments
Color	Black	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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