

DuPont Performance Polymers Kalrez® AeroSeal™ 7777 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez AeroSeal™ 7777 perfluoroelastomer parts are a specialty black product that meets the requirements of Aerospace Material Specification (AMS) 7257C. It offers outstanding thermal stability and compression set resistance along with excellent seal force retention properties. It also offers excellent resistance to HTS (High Thermo-Oxidative Stability) gas turbine engine lubricating oils and has excellent response to temperature cycling effects. Kalrez AeroSeal™ 7777 has good mechanical properties and is well suited for both static and dynamic sealing applications. A maximum continuous service temperature of 325 C (617 F) is suggested. Short excursions to higher temperatures may also be possible. Performance Features/Benefits Outstanding thermal stability Outstanding 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 Lower coefficient of thermal expansion (CTE) versus other Kalrez® products thus minimizing the need to increase the free volume of the seal gland when upgrading from fluoroelastomers (FKM) to perfluoroelastomers (FFKM) to Kalrez® AeroSeal™ 7777.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-AeroSeal-7777-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength at Break	17.91 MPa	2598 psi	ASTM D412
Elongation at Break	160 %	160 %	ASTM D412
100% Modulus	0.00758 GPa	1.10 ksi	ASTM D412
Compression Set	15 %	15 %	ASTM D1414 and ASTM D395B
	@Temperature 204 °C, Time 252000 sec	@Temperature 399 °F, Time 70.0 hour	
	19 %	19 %	
	@Temperature 300 °C, Time 252000 sec	@Temperature 572 °F, Time 70.0 hour	ASTM D1414 and ASTM D395B
	34 %	34 %	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
Minimum Service Temperature, Air	-4.00 °C	24.8 °F	Retraction Temperature, Tr10; ASTM D1329

Descriptive Properties	Value	Comments
Color	Black	

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