

DuPont Performance Polymers Kalrez® Spectrum™ 7090 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez Spectrum™ 7090 perfluoroelastomer parts are specifically targeted for use in applications requiring high hardness/higher modulus properties. These specialty black parts have excellent mechanical properties including compression set resistance, seal force retention, response to temperature cycling effects and rapid gas decompression resistance. Kalrez Spectrum™ 7090 perfluoroelastomer parts are well suited for both static and dynamic sealing applications, especially applications that require extrusion resistance at higher temperatures. They also offer outstanding thermal stability and chemical resistance. A maximum continuous service temperature of 325 C (617 F) is suggested. Short excursions to higher temperatures may also be possible. Performance Features/Benefits Higher hardness and modulus Exceptional thermal stability and compression set resistance Outstanding seal force retention properties and response to temperature cycling effects Excellent mechanical properties Lower coefficient of thermal expansion (CTE) versus other Kalrez® parts thus minimizing the need to increase the free volume of the seal gland when upgrading from fluoroelastomers (FKM) to perfluoroelastomers (FFKM).

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-Spectrum-7090-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength at Break	22.75 MPa	3300 psi	ASTM D1414, ASTM D412
Elongation at Break	75 %	75 %	ASTM D1414, ASTM D412
50% Modulus	0.01591 GPa	2.308 ksi	ASTM D1414, ASTM D412
Compression Set	12 %	12 %	ASTM D1414 and ASTM D395B
	@Temperature 204 °C, Time 252000 sec	@Temperature 399 °F, Time 70.0 hour	
	23 %	23 %	ASTM D1414 and ASTM D395B
	@Temperature 260 °C, Time 252000 sec	@Temperature 500 °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	-5.00 °C	23.0 °F	Retraction Temperature, Tr10; ASTM D1329

Descriptive Properties	Value	Comments
Color	Black	

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