

DuPont Performance Polymers Kalrez® Spectrum™ 0090 Fluoroelastomer

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

Material Notes:

DuPont™ Kalrez® 0090 perfluoroelastomer parts deliver durable, reliable sealing solutions for applications requiring excellent rapid gas decompression (RGD) properties as well as high hardness and high modulus properties. Some application areas include downhole equipment such as drilling and completion tools as well as industrial equipment including pumps and valves. Kalrez® 0090 has been certified by two independent labs (see Table 2) to meet rigorous requirements for resistance to RGD. In addition to demonstrated RGD resistance, DuPont™ Kalrez® 0090 seals have other chemical and temperature properties that provide superior performance. Chemical resistance: Kalrez® parts withstand attack by more than 1800 chemical substances. Kalrez® 0090 can be resistant to sour multi-phase fluids containing H₂S as shown by the external NORSOK M-710 Rev 2 Sour Fluid ageing resistance certification provided by MERL (UK). Broad temperature capability: Kalrez® 0090 retains high levels of resilience up to temperatures as high as 250 °C (482 °F) and down to -21 °C (-5.8 °F). Under pressurized sealing conditions, Kalrez® 0900 has demonstrated low temperature performance down to -40 °C (-40 °F) in customer laboratory tests.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-Spectrum-0090-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Tensile Strength at Break	19.49 MPa	2827 psi	ASTM D412
Elongation at Break	80 %	80 %	ASTM D412
50% Modulus	0.01418 GPa	2.057 ksi	ASTM D412
Compression Set	19 %	19 %	Pellets; ASTM D395B
	@Temperature 200 °C, Time 252000 sec	@Temperature 392 °F, Time 70.0 hour	
	33 %	33 %	
	@Temperature 200 °C, Time 252000 sec	@Temperature 392 °F, Time 70.0 hour	O-rings; ASTM D395B
	35 %	35 %	O-rings; ASTM D395B
	@Temperature 250 °C, Time 1.21e+6 sec	@Temperature 482 °F, Time 336 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	DuPont Test Method
Minimum Service Temperature, Air	-21.0 °C	-5.80 °F	DuPont Test Method
	-7.40 °C	18.7 °F	Retraction Temperature, Tr10; ASTM D1329

Thermal Properties	-1.00 °C Metric	30.2 °F English	RoRoof Test Method Comments
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Descriptive Properties	Value	Comments
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Color	Black	
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