

DuPont Performance Polymers Kalrez® Spectrum™ 0040 Fluoroelastomer

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

Material Notes:

Kalrez® Spectrum™ 0040 perfluoroelastomer parts are specifically designed for low-temperature environments where significant chemical resistance is required. Proprietary polymer and cure technology promotes low-temperature sealing performance (-42°C) of Kalrez® Spectrum™ 0040 parts to temperatures typically unattainable for perfluoroelastomers parts. Kalrez® Spectrum™ 0040 is an excellent choice in applications such as couplings for the chemical transportation industry, or for other applications where chemical resistance and elasticity are required in some of the coldest environments. The volume swell for Kalrez® Spectrum™ 0040 is approximately 10% when exposed to nitric acid at 110°C for 168 hours. Compression set resistance is similar to that of our broad chemically-resistant product, Kalrez® Spectrum™ 6375.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-Spectrum-0040-Fluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
Tensile Strength at Break	8.96 MPa	1300 psi	ASTM D412
Elongation at Break	170 %	170 %	ASTM D412
100% Modulus	0.00517 GPa	0.750 ksi	ASTM D412
Compression Set	41 %	41 %	ASTM D395B
	@Temperature 200 °C, Time 252000 sec	@Temperature 392 °F, Time 70.0 hour	
	57 %	57 %	ASTM D395B
	@Temperature 200 °C, Time 1.21e+6 sec	@Temperature 392 °F, Time 336 hour	
	62 %	62 %	ASTM D395B
	@Temperature 200 °C, Time 2.42e+6 sec	@Temperature 392 °F, Time 672 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	DuPont Test Method
Minimum Service Temperature, Air	-42.0 °C	-43.6 °F	DuPont Test Method
	-17.0 °C	1.40 °F	Retraction Temperature, Tr10; ASTM D1329
Glass Transition Temp, Tg	-27.0 °C	-16.6 °F	DuPont Test Method

Descriptive Properties	Value	Comments
Color	Black	

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