DuPont ™ Kalrez® OG193

For Oil and Gas Applications Requiring High Rapid Gas Decompression (RGD) Resistance in a Broad Range of Temperatures, Conditions and Part Configurations

Product technical Information – January 2023

Product Description

DuPont™ Kalrez® OG193 is a 95 durometer, FFKM compound that exhibits an excellent balance of properties for oil and gas applications. Kalrez® OG193 combines best-in-class Rapid Gas Decompression (RGD) performance and chemical resistance with good low temperature and thermal stability. This product also offers excellent versatility that allows it to be used for a variety of key parts including O-Rings, Packers, Bonded Seals, Chevron Stacks, T-Seals, and many others. It is an ideal fit for various applications in both upstream and downstream, such as oilfield production/completion equipment, wireline and drilling tools, pumps, mechanical seals, valves, compressors and many more!

TABLE 1: Typical Physical Properties[1]	
Color	Black
Hardness, Shore A[2]	94
50% Modulus[3], MPa (psi)	13 (1850)
Tensile Strength at Break[3], MPa (psi)	22 (3150)
Elongation at Break[3], %	100
Compression Set[4], %, 70 hrs. at 204 °C (400 °F)	29
Upper Service Temperature[5], °C (°F)	250 (482)
Lower Service Temperature[5], °C (°F)	-31 (-24)
Temperature retractation - TR10[6] °C (°F)	-10 (14)
Rapid Gas Decompression[7]	0000-0000-0000

[1] Not to be used for specification purposes
[2] ASTM D2240 (slab test specimens)
[3] ASTM D412 (dumbbell test specimen)
[4] ASTM D395B (AS568 K214 O-ring test specimens)
[5] DuPont proprietary test method (anaerobic conditions)
[6] ISO 2921 Temperature retractation
[7] Rapid Gas Decompression, ISO 23936-2

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Reference: KZE-A40076-00-B1019