DuPont™ Kalrez® Spectrum™ 4001

For High Purity CPI Applications

Technical Information - Rev. 1, July 2019

Product Description

DuPont™ Kalrez® 4001 perfluoroelastomer parts are a non-filled product which is well suited for selected high purity applications in the semiconductor industry and other markets. Kalrez® 4001 has excellent chemical resistance, exhibiting low swell in organic acids, inorganic acids, esters, ketones, and aldehydes. It also offers low hardness and good mechanical properties. While Kalrez® 4001 is a non-filled perfluoroelastomer, the color is black. A maximum service temperature of 275°C (527°F) is suggested.

Typical Physical Properties[1]

Color	Black
Hardness[2], Shore A	54
100% Modulus[3], MPa (psi)	1.48 (215)
Tensile Strength at Break[3], MPa (psi)	7.92 (1149)
Elongation at Break[3], %	245
Compression Set[4], 70 hr at 204 °C (400 °F), %	16
Maximum Service Temperature[5], °C (°F)	275 (525)

[1] Not to be used for specification purposes
[2] ASTM D2240 (Pellet test specimens)
[3] ASTM D412 (Dumbbell test specimens)
[4] ASTM D395B (Pellet test specimens)
[5] DuPont proprietary method; performance will vary with seal design and application specifics

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