DuPont™ Kalrez® Perfluoroelastomer Parts

DuPont™ Kalrez® Spectrum™ 7375 perfluoroelastomer parts as an alternative to DuPont™ Kalrez® 1050LF perfluoroelastomer parts for the Chemical Processing and Oil & Gas Industries

Technical Information - August 2021

Product Description

Kalrez® 1050LF parts are black products used in applications involving aggressive chemicals such as amines, strong bases, and/or steam and have an uppper service temperature of 288°C. However, production of this legacy product is being discontinued.

Kalrez® 7375 parts are black products that offer excellent amine-resistance, the best performance of any Kalrez® product in steam services, and superior overall chemical resistance. It has an upper service temperature of 300°C as well as excellent compression set resistance. Kalrez® 7375 parts may be a suitable replacement for Kalrez® 1050LF parts, and physical property comparisons between these products are shown in the table below.

For additional information on Kalrez® 7375 performance in specific industrial environments, please contact a Kalrez® Technical Service & Development Engineer who can review and evaluate your specific application and needs in more detail.

Typical Physical Properties[1]	Kalrez® 1050LF	Kalrez® Spectrum™ 7375
Color	Black	Black
Hardness, Durometer Shore A[2]	82	79
100% Modulus[3], MPa (psi)	12.4 (1800)	10.2 (1480)
Tensile Strength at Break[3], MPa (psi)	18.6 (2700)	16.9 (2450)
Elongation at Break[3], %	125	128
Compression Set[4], %70 hrs.at 204 °C (400 °F)	20	
Compression Set[5], %70 hrs.at 204 °C (400 °F)		9
Maximum Service Temperature[6], °C (°F)	288 (550)	300 (572)
Lowest Service Temperature[6], °C (°F)	-21 (-6)	-20 (-4)

[1] Not to be used for specifications
[2] ASTM D2240 (Pellet test specimens)
[3] ASTM D412 (Dumbbell test specimens)
[4] ASTM D395B, (Pellet test specimens)
[5] ASTM D395B & D1414, (AS568 K214 O-ring test specimens)
[6] DuPont proprietary test method; performance will vary with seal design and application specifics

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(08/21) Reference No. KZE-A40099-00-A0821