



DuPont™ Kalrez® 6190

For Custom Shapes & High Volume Applications

Technical Information - Rev. 4, July 2019

Product Description

DuPont™ Kalrez® 6190 perfluoroelastomer parts are a carbon black-filled product specifically designed for custom part and high volume applications. It has excellent thermal stability good mechanical strength properties and can be used in both static and dynamic sealing applications up to 300 °C (572 °F). In addition, Kalrez® 6190 is resistant to most chemical solvents but is not suggested for use in steam, strong acids or strong bases. Please contact a Kalrez® Application Engineer to discuss performance fit in your specific application.

Typical Physical Properties¹

Color	Black
Hardness ² , Shore A	74
100% Modulus ³ , MPa (psi)	9.01 (1307)
Tensile Strength at Break ³ , MPa (psi)	18.32 (2657)
Elongation at Break ³ , %	195
Compression Set ⁴ , % 70 hr. at 204 °C (400 °F)	11
Compression Set ⁵ , % 70 hr. at 204 °C (400 °F)	15
Maximum Service Temperature ⁶ , °C (°F)	300 (572)

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



Chemical Resistance			
	DuPont™ Kalrez® 6190	DuPont™ Kalrez® Spectrum™ 6375	DuPont™ Kalrez® Spectrum™ 7075
Aromatic /Aliphatic oils	++++	++++	++++
Acids	+++	++++	++++
Bases	++	++++	++
Alcohols	++++	++++	++++
Aldehydes	++++	++++	++++
Amines	++	+++	++
Ethers	++++	++++	++++
Esters	++++	++++	++++
Ketones	++++	++++	++++
Steam/Hot Water	x	++++	x
Strong Oxidizers	++	++	++
Ethylene Oxide	+++	++++	+++
Hot Air	++++	+++	++++

++++ = Excellent +++ = Very Good ++ = Good + = Fair x = Not recommended

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