

# DuPont™ Kalrez® 6190

For Custom Part & High Volume Applications

Technical Information – May, 2017

## 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 Properties<sup>1</sup>

Hardness, Shore A <sup>2</sup>	73
100% Modulus <sup>3</sup> , MPa (psi)	8.90 (1291)
Tensile Strength at Break <sup>3</sup> , MPa (psi)	18.60 (2697)
Elongation at Break <sup>3</sup> , %	180
Compression Set <sup>4</sup> , %	
70 hr. at 204°C (400°F)	16
70 hr. at 300°C (572°C)	35
Maximum Application Temperature <sup>5</sup> , °C (°F)	300 (572)

<sup>1</sup> Not to be used for specification purposes

<sup>2</sup> ASTM D2240 (Pellet Test Specimens)

<sup>3</sup> ASTM D412 (Dumbbell Test Specimens)

<sup>4</sup> ASTM D395B & D1414 (AS568 K214 O-ring Test Specimens)

<sup>5</sup> DuPont Proprietary Test Method



The miracles of science™



VARISCO & CO

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	++++	++
Strong Oxidizers	++	++	++
Ethylene Oxide	+++	++++	+++
Hot Air	++++	+++	++++

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

Visit us at [kalrez.dupont.com](http://kalrez.dupont.com) or [vespel.dupont.com](http://vespel.dupont.com)

Contact DuPont at the following regional locations:

**North America**  
800-222-8377

**Latin America**  
+0800 17 17 15

**Europe, Middle East, Africa**  
+41 22 717 51 11

**Greater China**  
+86-400-8851-888

**ASEAN**  
+65-6586-3688

**Japan**  
+81-3-5521-8484

The information provided in this data sheet corresponds to DuPont knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise.

The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use and disposal conditions, DuPont does not guarantee results, makes no warranties and assumes no liability in connection with any use of this information. All such information is given and accepted at the buyer's risk. It is intended for use by persons having technical skill, at their own discretion and risk. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent.

**CAUTION:** Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-5 and DuPont CAUTION Regarding Medical Applications H-50102-5.

Copyright © DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, Kalrez® is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

(07/06) Reference No. KZE-A10534-00-C0517



The miracles of science™

