



Kalrez[®] perfluoroelastomer parts

From DuPont Performance Elastomers

Kalrez[®] 3065 (color: black)

General Description

Kalrez[®] 3065 is a highly filled compound containing carbon black and fiber reinforcement, designed to function without extrusion under extreme pressure. It has a good all round chemical resistance and excellent resistance to sour oil and amines. Kalrez[®] 3065 has an upper service temperature of 288°C.

The mechanical properties and chemical resistance of Kalrez[®] 3065 make it the best choice for many oil and gas well applications. In these applications it is normally used in the form of V-rings and other custom parts rather than O-rings.

The physical properties of Kalrez[®] 3065 are as follows:

Typical Physical Properties¹

Hardness ² ,	Shore A ±5	90
100% Modulus ³ ,	MPa	—
Tensile Strength at Break,	MPa	24.1
Elongation at Break,	%	30
Compression Set ⁴ , 70 hr at 204°C,	%	—
Brittle Point, °C		-23

¹ Not to be used for specifications

² ASTM D2240

³ ASTM D412, 500 mm/min (20 µm/min)

⁴ ASTM D395 B, pellets

Chemical Resistance

Material Compound	Kalrez [®] 3065
<i>Chemical Resistance to:</i>	
Aromatic/Aliphatic oils	+++
Acids	++
Alkalis	++
Alcohols	+++
Aldehydes	+++
Amines	+++
Ethers	+++
Esters	+++
Ketones	+++
Steam/Hot water	++
Strong Oxidizers	0
Ethylene/Propylene Oxide	--

+++ = Excellent

+ = Good

- = Poor

++ = Very Good

0 = Marginal

-- = Not Recommended

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