

## Technical information

# Garlast® 1090

Perfluoroelastomer parts

Suzhou Diwei sealing technology Co.,Ltd

**Color: black**

### General Description

Garlast 1090 is a carbon black-filled compound with **higher hardness/modulus** for general use in O-rings, seals, diaphragms, and other parts specifically for the chemical process and oil field industry. This compound has excellent, broad chemical resistance, good mechanical properties, and **outstanding high pressure extrusion resistance**. Garlas 1090 is well suited for use in mixed process streams because of its excellent resistance to acids, bases, hot water, steam, ethylene oxide and propylene oxide. Maximum continuous service temperature of 250°C is recommended.

### Applications

- Mechanical seals
- Valves
- Pump housings
- Sampling/metering
- Reactors
- Bearing isolators
- Mixers
- Compressors
- Sprayers/dispensers
- Controls/instrumentation

### Typical Physical Properties<sup>1</sup>

Hardness <sup>2</sup> , Shore A ±5		93
100% Modulus <sup>3</sup> ,	MPa	
Tensile at Break <sup>3</sup> ,	MPa	19
Elongation at Break <sup>3</sup> ,	%	100
Compression Set <sup>4</sup> ,	%	30
70h at 204°C		

<sup>1</sup> Not to be used for specifications

<sup>2</sup> ASTM D2240

<sup>3</sup> ASTM D412, 500 mm/min (20 in/min)

<sup>4</sup> ASTM D395 B, 214 o-rings

### Chemical Resistance

<i>Chemical Resistance to</i>	
Aromatic/Aliphatic oil	++++
Acids	++++
Bases	++++
Alcohols	++++
Aldehydes	++++
Amines	+++
Ethers	++++
Esters	++++
Ketones	++++
Steam/Hot water	++++
Strong Oxidizers	++
Ethylene Oxide	++++

++++ = Excellent

++ = Good

+++ = Very Good

+ = Fair

x = Not Recommended