



## Garlast® 1090 Perfluoroelastomer

### Overview

Garlast® 1090 has excellent chemical corrosion resistance, including organic and inorganic acids, alkalis, esters, ethers, and ketones, aldehydes, superheated water and water vapor, etc. The maximum operating temperature is 230°C.

Garlast® 1090 is particularly suitable for high-pressure corrosion environments.

Garlast® 1090 can be processed into O-rings and customized products for customers.

### Application Equipment

- Mechanical seals
- Pumps
- Valves
- Compressors
- Centrifuges
- Metering and control instrumentation
- Reactors
- Agitators and grinders
- Analytical instruments
- Spraying equipment

### Color

Black

### Mechanical properties

Hardness <sup>1</sup>	Shore A	93
100% constant tensile stress <sup>2</sup>	MPa	
Tensile strength <sup>2</sup>	MPa	19.0
Elongation at break <sup>2</sup>	%	100
Compression set deformation <sup>3</sup> , 70h×204°C	%	30

1. ASTM D2240
2. ASTM D412, 500mm/min
3. ASTM D395B, 214-O-RING

### Chemical media resistance

Chemical media	Media resistant grade
Aromatic hydrocarbon-based / aliphatic hydrocarbon-based oils	++++
Acid	++++
Alkali	++++
alcohol	++++
Aldehyde	++++
Amine	+++
Ether	++++
esters	++++
Ketones	++++
Superheated water, water vapor	++++
Strong oxidant	++
Ethylene oxide / propylene oxide	++++
Hot air	+++

- ++++ = Excellent  
 +++ = Good  
 ++ = Fair  
 + = Poor  
 × = N/A