



Garlast® 5080 Perfluoroelastomer

Overview

Garlast® 5080 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® 5080 is particularly suitable for strong oxidizing media (halogens, thermooxygenating acids).

Garlast® 5080 can be processed into O-rings, washers and custom products.

Application Equipment

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

Color

Creamy yellow

Mechanical properties

Hardness ¹	Shore A	79
100% constant tensile stress ²	MPa	8.4
Tensile strength ²	MPa	12.6
Elongation at break ²	%	165
Compression set deformation ³ , 70h×204°C	%	35

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