



Garlast® 2075 Perfluoroelastomers

Overview

Garlast® 2075 has excellent resistance to chemical corrosion and hot air aging. The maximum continuous service temperature is 316°C, which can be used at slightly higher temperatures for a short period of time, and has a very low temperature in the high temperature environment. Compression set deformation, good resilience under high and low temperature alternating loop conditions.

Garlast® 2075 is not intended for use with amines, superheated water and water vapor, ethylene oxide, and propylene oxide.

Garlast® 2075 can be processed into O-rings, diaphragms, gaskets, rubber strips, adhesive plates 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 ¹	Shore A	74
100% constant tensile stress ²	MPa	9.3
Tensile strength ²	MPa	14.7
Elongation at break ²	%	177
Compression set deformation ³ , 70h×204°C	%	19

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



Garlast® 2075 Chemical Media Resistance

Chemical media	Soaking temperature °C	Soak time (h)	Volume swelling %
Glacial acetic acid	50	168	7
Ammonium Hydroxide Ammonia	23	168	1
Ammonium Hydroxide Ammonia	100	168	15
Black Liquor	150	168	5
Epoxyethane ethylene oxide	23	168	2
Freon 11	15	168	8
Freon Freon 134A	23	168	15
Freon Freon 134A	100	168	25
Hydrochloric acid 10% hot	40	168	< 1
Hydrochloric acid 60%	23	168	1
Hydrogen peroxide 30%	70	168	25.9
RM-903	230	70	3
Methanol methanol	23	168	< 1
Methyl ethyl ketone (MEK).	23	70	< 1
Methylene dichloride dichloromethane	23	168	2
Nitric acid	40	168	6
Propylene oxide propylene oxide	23	168	2
Sodium Hydroxide 20% Sodium Hydroxide	23	168	< 1
Sodium Hydroxide 20% Sodium Hydroxide	100	168	< 1
Sodium Hydroxide 50% Sodium Hydroxide	23	168	0
Steam water vapor	160	168	9
Steam water vapor	230	168	10
Steam water vapor	250	168	Blistering / cracking
Styrene phenylethylene	23	168	< 1
Sulfuric acid 98%	40	168	< 1
Toluene toluene	23	168	< 1
Triethyl amine	40	168	< 1
Water water	100	168	4
Water water	160	168	11
Water water	230	168	10
Water water	250	168	Blistering / cracking
Xylene xylene	23	168	< 1