Technical information

Garlast®7092 Perfluoroelastomer parts

Suzhou Diwei sealing technology Co.,Ltd

Color: black

General Description

Garlast® 7092 is a carbon black filled compound with higher hardness/modulus ,have excellent chemical resistance and mechanical properties. It has a maximum operating temperature of 325°C, although short excursions to higher temperatures are possible. It exhibits low swell in organic and inorganic acids and aldehydes and has good response to temperature cycling effects. Garlast 7092 has outstanding hot air ageing properties and

Physical Properties¹

Hardness ² Shore A	±5	90
100% Modulus ³	MPa	12.90
TS at break ³	MPa	16.10
Elongation at break ³	%	73
Compression set ⁴ ,% 25		
70h at 204°C		12
70h at 316°C		46

1 Not to be used for specifications

2 ASTM D2240

3 ASTM D412, 500 mm/min (20 in/min) 4 ASTM D395 B, 214 o-rings

Application

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

exhibits very low and stable compression set at high temperatures.

Compound 7092 is not recommended for applications involving water/steam and aliphatic amines at higher temperature. It should never be used in applications involving ethylene oxide or propylene oxide. The physical properties and chemical resistance of compound 7092 are as follows:

Chemical Resistance

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

++++ = Excellent +++ = Very Good

++ = Good +:

+ = Fair x = Not Recommended