

DAI-EL® Perfluor GA-500

Characteristics

DAI-EL® Perfluor GA-500 is a perfluoroelastomer with outstanding heat resistance and chemical resistance compared with other fluoroelastomers and can be used under severe conditions.

Perfluor GA-500 is also suitable for semiconductor applications due to its high level of cleanliness.

Properties*

Appearance	White or transparent sheet
Mooney viscosity (ML ₁₊₁₀ @ 100°C)	80 MU
Specific Gravity	2.0
Glass Transition (DSC)	-3°C

Thermal and Chemical Properties Service Temperature

Maximum Service Temperature:	300°C for continuous use, 320°C as peak for short time
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*Typical properties are not suitable for specification purposes.

Product can be used in Contact With:

Hydrocarbons, fuels, ketones, halogenated hydrocarbons, esters, alkalis and amines, ethers, mineral and organic acids, alcohols, steam

Potential Applications

Semiconductor manufacture, salt electrolytic processes, chemical engineering, analytical instruments, oil and gas, fuel cells, painting and coating equipment, fuel cells, aerospace applications, other

Packaging

DAI-EL® GA-500 standard packaging is 2 kg, net weight, in aluminum bag.

Typical Compound Properties

Standard Full Compound Recipe	phr
Base Polymer	100
Vulcanizing agent V-6M	0.8
Carbon black MT (N-990)	20

Cure Properties

(JRS Type II: 10 mins @ 180°C)

T90, min	14.1
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Mechanical Properties

(Cure conditions: 15 mins @ 180°C + Post Cure: 18 hrs @ 290°C)

Hardness, Shore A	74
100% Modulus, MPa	8
Tensile strength, MPa	19
Elongation at break, %	200

Compression Set

(P-24 O-ring, 25% deformation, 30 min recovery)

70 hrs at 300°C, %	15
70 hrs at 316°C, %	31

	Metal content (Ash method) ppm	Detection limit (Ash method) ppm
Fe	nd	0.5
Cr	nd	0.5
Ni	nd	0.5
Na	nd	0.5
K	nd	0.5
Ca	nd	0.5
Mg	Nd	0.5
Cu	Nd	0.5
Zn	Nd	0.5
Al	Nd	1

nd: not detectable

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DAIKIN AMERICA, INC.

20 Olympic Drive
Orangeburg, NY 10962
Customer Service: 800-365-9570
Fax: 845-365-9598
<http://www.daikin.cc>

DAIKIN INDUSTRIES, LTD.

Umeda Center Building
2-4-12 Nakasaki-Nishi, Kita-Ku
Osaka 530-8323 Japan
Phone: +81-6-67374-9355
Fax: +81-6-6374-4281
<http://www.daikin.com>

DAIKIN CHEMICAL EUROPE GmbH

Immermannstr, 65D
40210 Dusseldorf, Germany
Phone: +49-211-1792250
Fax: +49-211-1640732