

DAI-EL® Perfluor GA-105

Characteristics

DAI-EL® Perfluor GA-105 is a peroxide curable perfluoroelastomer (FFKM). This grade offers good mechanical properties, excellent chemical and solvent resistance as compared with other fluoroelastomers, and can be used for applications under severe conditions.

Perfluor GA-105 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)	65 MU
Specific Gravity	2.0
Glass Transition (DSC)	-2°C

Thermal and Chemical Properties Service Temperature

Maximum Service Temperature:	200°C for continuous use, 220°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, ketons, 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-105 standard packaging is 2 kg, net weight, in aluminum bag.

Typical Compound Properties

Standard Recipe	phr
Base Polymer	100
Carbon black MT (N-990)	15
TAIC (100%)	3
2,5-dimethyl-2,5 di-(t-butylperoxy)hexane (100%)	1

Cure Properties

(JRS Type II: 10 mins @160°C)

T90, min	2.5
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Mechanical Properties

(Cure conditions: 10 mins @ 160°C + Post Cure: 4 hrs @ 180°C)

Hardness, Shore A	80
100% Modulus, MPa	12.0
Tensile strength, MPa	20.0
Elongation at break, %	130

Compression Set

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

70h at 200°C %	15
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	Metal content (Ash method) ppm	Detection limit (Ash method) ppm
Fe	nd	0.5
Na	nd	0.5
Cu	nd	0.5
Mg	nd	0.5
Zn	nd	0.5
Al	nd	1.0

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