

Fluoroelastmer

DAI-EL G-501NK

 TECHNICAL
DATASHEET

DAI-EL G-501NK is a fluoroelastomer which has excellent adhesion properties to metal and mechanical properties.

Introduction

- DAI-EL G-501NK is a bisphenol type terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for compression molding.
- It offers excellent adhesion properties to metal and mechanical properties. It is suitable for fuel hoses.

General physical properties—Product^{*1}

Items	Data	Test method
Color	White to pale yellow	Visual observation
Fluorine Content	68 mass%	—
Specific Gravity (23°C)	1.84	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	74(121°C), 50(140°C)	ASTM D1646
Solubility	Soluble in lower ketones and esters	—

General physical properties—Vulcanizate^{*1*2}

Items	Units	Numeric Value	Test method
100% Tensile Stress	MPa	4.1	ASTM D412
Tensile Strength	MPa	18.8	ASTM D412
Elongation at Break	%	280	ASTM D412
Compression Set	%	65	70hrs@200°C, 25% compression ^{*3}
Hardness (Shore A)	—	75(peak), 72 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-16	ASTM D1329

^{*1} The above values are representative and not guaranteed.

^{*2} [Formula] DAI-EL G-501NK: 100 phr, MT carbon black (N990): 20 phr, Magnesium Oxide (high-active): 15 phr, Vulcanization agent V-3: 3 phr [Curing condition] Press cure: 20min@160°C, Post cure: 24hrs@200°C.

^{*3} P-24 O-ring.

Handling / Safety information

- Be sure to read the Safety Data Sheet (SDS) and precautions on the label before using.
- This product has been developed for industrial purpose and we shall not guarantee the safety if used for any other purposes. If it is going to be used for medical or food applications, please contact us in advance.

Packing specification

- 20kg

For more information, visit our website.

DAIKIN INDUSTRIES, LTD.

<https://www.daikinchemicals.com/>