

# Fluoroelastomer DAI-EL G-501N

 TECHNICAL  
DATASHEET

DAI-EL G-501N is a fluoropolymer which provides a good balance of chemical resistance and cold temperature flexibility.

## Introduction

- DAI-EL G-501N is a diamine curable terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for compression molding.
- It provides a good balance of chemical resistance and cold temperature flexibility.
- Use it for adjustment of cure density by mixing with other bisphenol curable products. It does not contain vulcanization agent and accelerator.

## General physical properties—Product<sup>\*1</sup>

Items	Data	Test method
Color	White to pale yellow	Visual observation
Fluorine Content	68.5 mass%	—
Specific Gravity (23°C)	1.87	ASTM D792
Mooney Viscosity (ML <sub>1+10</sub> )	64(121°C), 37(140°C)	ASTM D1646
Solubility	Soluble in lower ketones and esters	—

## General physical properties—Vulcanizate<sup>\*1\*2</sup>

Items	Units	Numeric Value	Test method
100% Tensile Stress	MPa	3.5	ASTM D412
Tensile Strength	MPa	15.7	ASTM D412
Elongation at Break	%	310	ASTM D412
Hardness (Shore A)	—	78(peak), 74 (3sec)	ASTM D2240
Low Temperature Retraction (TR <sub>10</sub> )	°C	-13	ASTM D1329

<sup>\*1</sup> The above numeric values are representative and not guaranteed.

<sup>\*2</sup> [Formula] DAI-EL G-501N: 100 phr, MT carbon black (N990): 20 phr, Magnesium Oxide (low-active): 15 phr, Vulcanizing agent V-3: 3 phr, [Curing condition] Press cure: 20min@190°C, Post cure: 24hrs@200°C.

## 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 purposes 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/>