

# Fluoroelastomer DAI-EL G-551

 TECHNICAL  
DATASHEET

**DAI-EL G-551 is a fluoroelastomer with a good balance of fluid resistance and low temperature flexibility.**

## Introduction

- DAI-EL G-551 is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for compression molding.
- It offers a good balance of **fluid resistance** and **low temperature flexibility**.

## General physical properties—Product\*1

Items	Data	Test method
Color	Milky 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> )	83 (100°C), 48 (121°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	4.3	ASTM D412
Tensile Strength	MPa	14.6	ASTM D412
Elongation at Break	%	220	ASTM D412
Compression Set	%	25	70hrs@200°C, 25% compression*3
Hardness (Shore A)	—	72 (peak), 69 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-14	ASTM D1329

\*1 The above values are representative and not guaranteed.

\*2 [Formula] DAI-EL G-551: 100 phr, MT carbon black (N990): 20 phr, Calcium hydroxide: 6 phr, Magnesium Oxide (high-active): 3 phr, [Curing condition] Press cure: 10min@170°C, Post cure: 24hrs@230°C.

\*3 P-24 O-ring.

## Handling method/Safety information

- Be sure to read the notes on SDS and labels before use.
- This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

## Packing specification

- 20kg

For more information, visit our website.

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