

# Fluoroelastomer DAI-EL G-9503

 TECHNICAL  
DATASHEET

**DAI-EL G-9503 is a fluoroelastomer which provides excellent mechanical properties and resistance to steam and acids.**

## Introduction

- DAI-EL G-9503 is a peroxide curable terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for injection molding.
- It provides excellent **mechanical properties** and **resistance to steam and acids** and a good balance of **chemical resistance** and **low temperature flexibility**.

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

Items	Data	Test method
Color	Translucent to pale yellow	Visual observation
Fluorine Content	69 mass%	—
Specific Gravity (23°C)	1.87	ASTM D792
Mooney Viscosity (ML <sub>1+10</sub> )	60 (100°C), 30 (121°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	3.0	ASTM D412
Tensile Strength	MPa	19.8	ASTM D412
Elongation at Break	%	280	ASTM D412
Compression Set	%	21	70hrs@200°C, 25% compression <sup>*3</sup>
Hardness (Shore A)	—	66 (peak), 63 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-14	ASTM D1329

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

\*<sup>2</sup> [Formula] DAI-EL G-9503: 100 phr, MT carbon black (N990): 20 phr, Triallylisocyanurate (100% active): 4 phr, 2,5-dimethyl-2,5-di(t-butylperoxy)hexane (100% active): 1.5 phr, [Curing condition] Press cure: 10min@160°C, Post cure: 4hrs@180°C.

\*<sup>3</sup> 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.**

***DAIKIN INDUSTRIES, LTD.***

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