DAIKIN | Positively Innovative

Fluoroelastomer

# DAI-EL G-912

TECHNICAL DATASHEET

## DAI-EL G-912 is a fluoroelastomer which provides excellent resistance to steam and acids and good compression set.

### Introduction

- DAI-EL G-912 is a peroxide curable terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for injection, transfer and extrusion molding.
- It provides excellent **resistance to steam and acids** and good **compression set**. It has highest fluorine content of all grades, which provides excellent **chemical resistance**.

### General physical properties—Product[*1]

| Items | Data | Test method |
|---|---|---|
| Color | Translucent to pale yellow | Visual observation |
| Fluorine Content | 70.5 mass% | — |
| Specific Gravity (23°C) | 1.91 | ASTM D792 |
| Mooney Viscosity ($ML_{1+10}$) | 76 (100°C), 56 (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 | 8.5 | ASTM D412 |
| Tensile Strength | MPa | 20.0 | ASTM D412 |
| Elongation at Break | % | 160 | ASTM D412 |
| Compression Set | % | 16 | 70hrs@200°C, 25% compression[*3] |
| Hardness (Shore A) | — | 72 (peak), 69 (3sec) | ASTM D2240 |
| Low Temperature Retraction (TR10) | °C | -6 | ASTM D1329 |

[*1] The above values are representative and not guaranteed.

[*2] [Formula] DAI-EL G-912: 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.

[*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



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