

Fluoroelastomer DAI-EL G-555

 TECHNICAL
DATASHEET

DAI-EL G-555 is a fluoroelastomer which has excellent extrusion processability with a good balance of fuel resistance and low temperature flexibility.

Introduction

- DAI-EL G-555 is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which has excellent **extrusion processability**.
- It offers a good balance of **fuel resistance** and **low temperature flexibility** and is suitable for fuel hoses.

General physical properties—Product*1

| Items | Data | Test method |
|--|-------------------------------------|--------------------|
| Color | Milky white to pale yellow | Visual observation |
| Fluorine Content | 69 mass% | — |
| Specific Gravity (23°C) | 1.87 | ASTM D792 |
| Mooney Viscosity (ML ₁₊₁₀) | 44 (100°C), 35 (121°C) | ASTM D1646 |
| Solubility | Soluble in lower ketones and esters | — |

General physical properties—Vulcanizate*1*2*3

| Items | Units | Numeric Value | Test method |
|-----------------------------------|-------|----------------------|---|
| 100% Tensile Stress | MPa | 2.6 | ASTM D412 |
| Tensile Strength | MPa | 11.7 | ASTM D412 |
| Elongation at Break | % | 350 | ASTM D412 |
| Compression Set | % | 29 | 70hrs@200°C, 25% compression ^{*4} |
| Hardness (Shore A) | — | 71 (peak), 62 (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-555: 100 phr, SRF carbon black (N774): 15 phr, Calcium hydroxide: 6 phr, Magnesium Oxide (high-active): 3 phr, [Curing condition] Press cure: 45min@160°C, Post cure: 24hrs@230°C.

*3 Compression set tested after post cure, while others tested without post cure.

*4 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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