

Fluoroelastomer DAI-EL G-8002

 TECHNICAL
DATASHEET

DAI-EL G-8002 is a fluoroelastomer which provides superior mechanical properties and resistance to steam and acids.

Introduction

- DAI-EL G-8002 is a peroxide curable copolymer of vinylidene fluoride and hexafluoropropylene which is suitable for injection and extrusion molding.
- It provides superior **mechanical properties** and **resistance to steam and acids** compared with bisphenol curable products.

General physical properties—Product*1

| Items | Data | Test method |
|--|-------------------------------------|--------------------|
| Color | White to pale blown | Visual observation |
| Fluorine Content | 66 mass% | — |
| Specific Gravity (23°C) | 1.81 | ASTM D792 |
| Mooney Viscosity (ML ₁₊₁₀) | 47 (100°C), 25 (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 | 2.0 | ASTM D412 |
| Tensile Strength | MPa | 21.9 | ASTM D412 |
| Elongation at Break | % | 400 | ASTM D412 |
| Compression Set | % | 24 | 70hrs@200°C, 25% compression ^{*3} |
| Hardness (Shore A) | — | 66 (peak), 63 (3sec) | ASTM D2240 |
| Low Temperature Retraction (TR10) | °C | -19 | ASTM D1329 |

*1 The above values are representative and not guaranteed.

*2 [Formula] DAI-EL G-8002: 100 phr, MT carbon black (N990): 20 phr, Triallylisocyanurate (72% active): 4 phr, 2,5-dimethyl-2,5-di(t-butylperoxy)hexane (45% active): 3.3 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

For more information, visit our website.

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