

Fluoroelastomer DAI-EL G-621

 TECHNICAL
DATASHEET

DAI-EL G-621 is a fluoroelastomer which provides excellent fluid resistance and very low fuel permeation rates.

Introduction

- DAI-EL G-621 is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for compression molding.
- It has highest fluorine content of all grades, which provides excellent **fluid resistance** and very low **fuel permeation rates**.

General physical properties—Product*¹

Items	Data	Test method
Color	Milky white to pale brown	Visual observation
Fluorine Content	70.5 mass%	—
Specific Gravity (23°C)	1.90	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	78 (100°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	3.5	ASTM D412
Tensile Strength	MPa	15.2	ASTM D412
Elongation at Break	%	290	ASTM D412
Compression Set	%	29	70hrs@200°C, 25% compression* ³
Hardness (Shore A)	—	73 (peak), 67 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-6	ASTM D1329

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

*² [Formula] DAI-EL G-621: 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.

DAIKIN INDUSTRIES, LTD.

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