

Fluoroelastomer DAI-EL G-681

 TECHNICAL
DATASHEET

DAI-EL G-681 is a fluoroelastomer which provides excellent fluid resistance and very low fuel permeation rates.

Introduction

- DAI-EL G-681 is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for compression and injection molding.
- It has high fluorine content, which provides excellent **fluid resistance** and **low fuel permeation rates**.

General physical properties—Product^{*1}

Items	Data	Test method
Color	Milky white to pale yellow	Visual observation
Fluorine Content	70 mass%	—
Specific Gravity (23°C)	1.90	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	66(100°C), 35(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	4.2	ASTM D412
Tensile Strength	MPa	14.3	ASTM D412
Elongation at Break	%	250	ASTM D412
Compression Set	%	27	70hrs@200°C, 25% compression ^{*3}
Hardness (Shore A)	—	75(peak), 70(3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-8	ASTM D1329

^{*1} The above values are representative and not guaranteed.

^{*2} [Formula] DAI-EL G-681: 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: 24h@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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