

Fluoroelastomer DAI-EL G-311

 TECHNICAL
DATASHEET

DAI-EL G-311 is a fluoroelastmer which has excellent compression set.

Introduction

- DAI-EL G-311 is a cure-incorporated copolymer of vinylidene fluoride and hexafluoropropylene which is suitable for compression molding, transfer molding and injection molding.
- It offers excellent compression set.

General physical properties—Product^{*1}

Items	Data	Test method
Color	Milky white to pale yellow	Visual observation
Fluorine Content	66 mass%	—
Specific Gravity (23°C)	1.81	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	55(100°C), 36(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	4.5	ASTM D412
Tensile Strength	MPa	13.3	ASTM D412
Elongation at Break	%	240	ASTM D412
Compression Set	%	14	200°C×70h,25% compression ^{*3}
Hardness (Shore A)	—	72(peak), 68(3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-18	ASTM D1329

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

^{*2} [Formula] DAI-EL G-311: 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: 24hr@230°C.

^{*3} P-24 O-ring.

Handling / Safety information

- Be sure to read the Safety Data Sheet (SDS) and precautions on the label before using.
- This product has been developed for industrial purpose and we shall not guarantee the safety if used for any other purposes. If it is going to be used for medical or food applications, please contact us in advance.

Packing specification

- 20Kg

For more information, visit our website.

DAIKIN INDUSTRIES, LTD.

<https://www.daikinchemicals.com/>