DAIKIN | Positively Innovative

Fluoroelastmer

DAI-EL G-716

TECHNICAL DATASHEET

DAI-EL G-716 is a fluoroelastmer which provides excellent compression set and heat resistance.

Introduction

- DAI-EL G-716 is a cure-incorporated copolymer of vinylidene fluoride and hexafluoropropylene which is suitable for compression molding.
- It provides excellent compression set and heat resistance.

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})	63(100°C), 40 (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	4.6	ASTM D412
Tensile Strength	MPa	13.9	ASTM D412
Elongation at Break	%	200	ASTM D412
Compression Set	%	13	70hrs@200°C,25% compression [*3]
Hardness (Shore A)	—	70(peak), 66(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-716: 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. Oven cure: 24hrs@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