

Fluoroelastomer DAI-EL G-557

 TECHNICAL
DATASHEET

DAI-EL G-557 is a fluoroelastomer which has excellent extrusion processability with excellent fuel resistance.

Introduction

- DAI-EL G-557 is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which has excellent **extrusion processability**.
- It offers excellent **fuel resistance** and is suitable for fuel hoses.

General physical properties—Product*1

Items	Data	Test method
Color	Milky white to pale yellow	Visual observation
Fluorine Content	69 mass%	—
Specific Gravity (23°C)	1.87	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	43 (100°C), 34 (121°C)	ASTM D1646
Solubility	Soluble in lower ketones and esters	—

General physical properties—Vulcanizate*1*2*3

Items	Units	Numeric Value	Test method
100% Tensile Stress	MPa	1.6	ASTM D412
Tensile Strength	MPa	11.3	ASTM D412
Elongation at Break	%	450	ASTM D412
Compression Set	%	32	70hrs@200°C, 25% compression*4
Hardness (Shore A)	—	64 (peak), 61 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-13	ASTM D1329

*1 The above values are representative and not guaranteed.

*2 [Formula] DAI-EL G-557: 100 phr, SRF carbon black (N774): 13 phr, Calcium hydroxide: 6 phr, Magnesium Oxide (high-active): 3 phr, [Curing condition] Press cure: 45min@160°C, Post cure: 24hrs@230°C.

*3 Compression set tested after post cure, while others tested without post cure.

*4 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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