

Fluoroelastomer DAI-EL G558ES

 TECHNICAL
DATASHEET

DAI-EL G-558ES is a fluoroelastomer which has excellent adhesion property to other material and extrusion processability with excellent fuel resistance.

Introduction

- DAI-EL G-558ES is a bisphenol type cure-incorporated terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which has excellent **extrusion processability**.
- It offers excellent **fuel resistance** and **adhesion property to other material**. It 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)	41(100°C), 32(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	2.9	ASTM D412
Tensile Strength	MPa	11.1	ASTM D412
Elongation at Break	%	310	ASTM D412
Compression Set	%	36	24hrs@100°C, 25% compression * ³
Hardness (Shore A)	—	68(peak), 62(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-558ES: 100 phr, SRF carbon black (N774): 13 phr, Calcium hydroxide: 6 phr, Magnesium Oxide (high-active): 3 phr, [Curing condition] Press cure: 15min@170°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 purposes 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/>