

Fluoroelastomer DAI-EL G-801

 TECHNICAL
DATASHEET

DAI-EL G-801 is a fluoroelastomer which provides superior mechanical properties and resistance to steam and acids.

Introduction

- DAI-EL G-801 is a peroxide curable copolymer of vinylidene fluoride and hexafluoropropylene which is suitable for transfer and compression molding.
- It provides superior **mechanical properties** and **resistance to steam and acids** compared with bisphenol curable products.

General physical properties—Product*¹

Items	Data	Test method
Color	Translucent to pale yellow	Visual observation
Fluorine Content	66 mass%	—
Specific Gravity (23°C)	1.81	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	70 (100°C), 37 (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	1.8	ASTM D412
Tensile Strength	MPa	21.8	ASTM D412
Elongation at Break	%	440	ASTM D412
Compression Set	%	28	70hrs@200°C, 25% compression ³
Hardness (Shore A)	—	65 (peak), 60 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-19	ASTM D1329

*¹ The above values are representative and not guaranteed.

*² [Formula] DAI-EL G-801: 100 phr, MT carbon black (N990): 20 phr, Triallylisocyanurate (100% active): 4 phr, 2,5-dimethyl-2,5-di(t-butylperoxy)hexane (100% active): 1.5 phr, [Curing condition] Press cure: 10min@160°C, Post cure: 4hrs@180°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.

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