



TECHNICAL INFORMATION

DAI-EL™

Fluoroelastomer

G-797

FEATURES

DAI-EL G-797 is a cure-incorporated copolymer designed for transfer and injection molding applications. G-797 offers moderate cure speeds with good elongation.

PROPERTIES

Specific gravity	(at 25°C)	1.81
Mooney viscosity	(ML ₁₊₁₀ ·121°C)	Approx. 30
Color		White to light pink
Solubility		Soluble in lower ketones and esters
Storage stability	(Room temp.)	Excellent
Fluorine content	(mass%)	66

TYPICAL APPLICATIONS

O-Rings, gaskets, seals

PACKAGING

20 kg. Boxes

SAFETY

- (1) Store and use all fluoroelastomers only in a well-ventilated area.
- (2) Do not smoke in areas contaminated with dust from fluoroelastomers.
- (3) Avoid eye contact.
- (4) After handling fluoroelastomers wash any skin that came in contact with the product with soap and water.

Potential hazards, including evolution of toxic vapors, exist during compounding or processing under high temperatures. Before processing Daikin fluoroelastomers, consult the MSDS (Material Safety Data Sheet) and follow all label directions and handling precautions. You need to read and follow all directions from other compound ingredient suppliers. Mixing agents that contain metallic particulate such as powdered aluminum can rapidly decompose at high temperatures, and therefore should not be used with this product.

STANDARD COMPOSITION AND CHARACTERISTICS OF DAI-EL G-797

Fluorine content	(%)	66
Mooney viscosity		
ML ₁₊₁₀ 121°C		30
Curing characteristics		
Measuring temperature	(°C)	170
Curelasterometer	(min)	4.0
Room temperature	(25°C)	
Specific gravity		1.85
100% tensile stress	(MPa)	4.1
Tensile strength	(MPa)	14.4
Elongation	(%)	300
Hardness	Shore A*	70
Compression Set	(%)	
	70h at 200°C (392°F)	22

*Peak Value

Formulation	Polymer	100
	MT carbon black*1	20
	Ca(OH) ₂ *2	6
	MgO*3	3
	(High activity)	
Curing condition	Press	10min at 170°C
	Oven	24h at 230°C

	Trade Name	Supplier	Chemical Name
*1	Thermax N-990	Cancarb. Ltd.	ASTM N990 carbon black
*2	CALDIC 2000	Ohmi Chemical Industry, Ltd.	Calcium hydroxide
*3	MA 150	Kyowa Chemical Industrial Co., Ltd.	Magnesium oxide

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