

DAI-EL® G-801

Characteristics

DAI-EL® G-801 is a peroxide curable copolymer with medium Mooney viscosity suitable for transfer and compression molding. DAI-EL® G-801can be formulated with various peroxide cure systems to eliminate the need for post cure. DAI-EL® G-801 provides superior mechanical properties and resistance to steam and aqueous solvents compared with bisphenol cured fluoroelastomers.

Properties*	Value
Fluorine content	66%
Specific gravity	1.81
Mooney viscosity (ML1+10@121°C)	37
Color	White to light pink
Solubility	Soluble in lower ketones and esters

*Typical properties are not suitable for specification purposes.

Typical Applications

O-Rings, gaskets, seals

Form & Packaging

DAI-EL® G-801 is packaged as slabs with polyethylene film separators sealed in a polyethylene bag. The standard shipping container is a 20 kg (44 lb) net weight carton.

DAI-EL® G-801 may be used in compliance with 21 CFR 177.2600, Rubber articles intended for repeated use. Finished articles are required to comply with the end tests specified in 21 CFR 177.2600 (e) or (f), as applicable.

Safety

(1) Store and use all fluoroelastomers in a well-ventilated area.

- (2) Do not smoke in areas contaminated with dust from fluoroelastomers.
- (3) Avoid eye contact.
- (4) After handling, wash any skin that came in contact with the product with soap & water.

Potential hazards, including evolution of toxic vapors, exist during compounding or processing under high temperatures. Before processing Daikin fluoroelastomers, consult the SDS (Safety Data Sheet) and follow all label directions and handling precautions. 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.

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Typical Compound Properties

Test Formula	phr
DAI-EL® G-801	100
MT Carbon Black (N-990)	30
TAIC (72% Activity)	4
Peroxide (50% Activity)	3
Zinc Oxide	3

Rheological Properties	MDR 2000
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6'
ML (minimum torque), lb-in (dNm)	0.7 (0.8)
MH (maximum torque), lb-in (dNm)	16.0 (18.0)
t _s 2 (scorch time), minutes	0.5
t'50 (time to 50% cure), minutes	0.6
t'90 (time to 90% cure), minutes	0.8

Physical Properties		
Press Cure Post Cure	10 min @ 177 °C 4 hrs @ 200 °C	
Hardness, Shore A	71	
Tensile strength, MPa (psi)	18.6 (2700)	
Elongation at break, %	370	
100% Tensile Stress, MPa (psi)	3.1 (450)	
Compression Set, ASTM D395 Method B (#214 O-ring)		
70 hours @ 175°C (347°F), %	20	
70 hours @ 200°C (392°F), %	31	

Low Temperature Properties

Embrittlement Temperature, °C	-25	
Gehman Torsion ASTM 1053-92A		
T ₂ , °C	-10.0	
T ₁₀ , °C	-15.5	
Temperature Retraction, ASTM D1329		
TR ₁₀ , °C	-19.0	
TR ₇₀ , °C	-10.0	

Air Oven Aging 70 hours @ 200°C

Tensile Strength Change Rate, %	6.3
Elongation Change Rate, %	-6.0

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DAIKIN AMERICA, INC.

20 Olympic Drive Orangeburg, NY 10962 Customer Service: 800-365-9570 Fax: 845-365-9598 http://www.daikin-america.com

DAIKIN INDUSTRIES, LTD.

Umeda Center Building 2-4-12 Nakasaki-Nishi, Kita-Ku Osaka 530-8323 Japan Phone: +81-6-67374-9355 Fax: +81-6-6374-4281 http://www.daikin.com

DAIKIN CHEMICAL EUROPE GmbH

Immermannstr, 65D 40210 Dusseldorf, Germany Phone: +49-211-1792250 Fax: +49-211-1640732

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