

DAI-EL® G-702

Characteristics

DAI-EL® G-702 is a bisphenol cure-incorporated copolymer with medium Mooney viscosity. It is designed for transfer or compression molding of complex parts where higher elongation at molding temperatures is required for easy part demolding.

Properties*	Value
Fluorine Content	66%
Specific Gravity	1.81
Mooney Viscosity (ML1+10@121°C)	41
Color	White to cream
Solubility	Soluble in lower ketones and esters

*Typical properties are not suitable for specification purposes.

Typical Applications

Seals, diaphragms, other dynamic applications

Form & Packaging

DAI-EL® G-702 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.

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.

Typical Compound Properties

Test Formula	phr
DAI-EL® G-702	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6

Rheological Properties	MDR 2000	ODR
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6'	Strain: 3° Test time: 12'
ML (minimum torque), lb-in (dNm)	1.4 (1.5)	14 (16)
MH (maximum torque), lb-in (dNm)	11.6 (13.1)	70 (80)
t _{s2} (scorch time), minutes	0.7	1.1
t'50 (time to 50% cure), minutes	1.0	1.9
t'90 (time to 90% cure), minutes	1.7	3.8

Physical Properties		
Press Cure	10 min @ 177 °C	5 min @ 177 °C
Post Cure	24 h @ 232 °C	24 h @ 260 °C
Hardness, Shore A	71	71
Tensile Strength, MPa (psi)	13.8 (2010)	13.9 (2010)
Elongation at break, %	240	260
100% Modulus, MPa (psi)	4.7 (690)	4.2 (610)
Compression Set, ASTM D395 Method B (#214 O-ring)		
70 hours @ 200 °C, %	28	26

Low Temperature Retraction, ASTM D1329	
TR10, °C	-18

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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