

DAI-EL® G-7801

Characteristics

DAI-EL® G-7801 is a bisphenol cure-incorporated copolymer with high Mooney viscosity. It is designed especially for compression molding of O-rings, seals and other shapes. It has better mold flow and lower compression set than copolymers of similar Mooney viscosity.

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

^{*}Typical properties are not suitable for specification purposes.

Typical Applications

O-rings, seals, gaskets, molded tubing

Form & Packaging

DAI-EL® G-7801 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 fluoroelastomer, 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.

TDS-G-050 REV 1 11/22/16

Typical Compound Properties

Test Formula	phr
<i>DAI-EL</i> ® G-7801	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6

Rheological Properties	MDR2000	ODR
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6'	Strain: 3° Test time: 12'
ML (minimum torque), lb-in (dNm)	2.2 (2.5)	20 (22)
MH (minimum torque), lb-in (dNm)	24.5 (27.7)	130 (150)
t _s 2 (scorch time), minutes	1.2	2.0
t'50 (time to 50% cure), minutes	1.8	3.8
t'90 (time to 90% cure), minutes	2.5	4.3

Physical Properties				
Press Cure Post Cure	10 min @ 177 °C 24 hrs @ 232 °C	15 min @ 177 °C 24 hrs @ 260 °C		
Hardness, Shore A	77	77		
Tensile strength, MPa (psi)	13.5 (1960)	14.5 (2100)		
Elongation at break, %	280	210		
100% Modulus, MPa (psi)	6.2 (890)	7.0 (1010)		
Compression Set, ASTM D395 Method B (#214 O-ring)				
70 hours @ 200 °C, %	12	14		

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

All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated, or that other measures may not be required. This product is not specifically designed or manufactured for use in implantable medical and/or dental devices. We have not tested it for such application and will only sell it for such use pursuant to contract containing specific terms and conditions required by DAIKIN.

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

Daikin America / www.daikin-america.com / 845-365-9500 / 1-800-365-9570

TDS-G-050 REV 1 11/22/16