TECHNICAL DATA SHEET

DAI-EL® G-EXP-048

Characteristics

DAI-EL® G-EXP-048 is a cure incorporated copolymer with a medium Mooney viscosity. It is designed for compression molding of orings, seals and other parts where fast cure speed and high elongation are required.

Properties*	Value
Fluorine content	66%
Specific gravity	1.81
Mooney viscosity (ML1+10@121°C)	42
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-EXP-048 is packaged as slabs with polyethylene film separators 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.

Typical Compound Properties

Test Formula	phr
DAI-EL® G-EXP-048	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6

Properties	MDR 2000
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6 min
ML (minimum torque), lb-in (dNm)	1.58 (1.8)
MH (maximum torque), lb-in (dNm)	12.3 (13.9)
ts2 (scorch time), minutes	0.6
t'50 (time to 90% cure), minutes	0.7
t'90 (time to 90% cure), minutes	0.9

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

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

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

Fax: +81-6-6374-4281 http://www.daikin.com

Physical Properties	cal Properties	
Press Cure Post Cure	10 min at 177 °C 24 hrs @ 232 °C	
Hardness, Shore A	71	
Tensile strength, MPa (psi)	14.1 (2050)	
Elongation at break, %	290	
100% Modulus, MPa (psi)	3.8 (560)	
Compression Set, ASTM D395 Method B (#214 O-ring)		
70 hours @ 200 °C, %	21.6	

DAIKIN CHEMICAL EUROPE GmbH

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

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