

## DAI-EL® G-9074

### Characteristics

DAI-EL® G-9074 is a medium viscosity, peroxide curable terpolymer designed especially for injection molding. It provides excellent mold flow and easy removal of molded parts. Properly compounded and cured, DAI-EL G-9074 has excellent compression set and chemical and steam resistance.

Properties*	Value
Fluorine content	71%
Specific gravity	1.83
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 and seals

### Form & Packaging

DAI-EL® G-9074 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-9074	100
MT Carbon Black (N-990)	20
TAIC 70%	3
Peroxide	1.5

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)	0.7 (0.7)	6.8 (7.7)
MH (maximum torque), lb-in (dNm)	20.5 (23.2)	109.6 (123.8)
t <sub>s2</sub> (scorch time), minutes	0.70	1.33
t'50 (time to 50% cure), minutes	0.93	2.50
t'90 (time to 90% cure), minutes	1.37	3.32

Physical Properties	
Press Cure	10 min @ 177 °C
Post Cure	0~4 hrs @ 200 °C
Hardness, Shore A	66
Tensile strength, MPa (psi)	18.5 (2690)
Elongation at break, %	262
100% Modulus, MPa (psi)	3.6 (530)
Compression Set, ASTM D395 Method B, P24 O-ring	
70 hours @ 200°C (392°F), %	10.8

Low Temperature Properties	
Temperature Retraction	
TR <sub>10</sub> , °C	-8.0

- a) **MT Carbon Black: Thermax MT(N990) manufactured by CANCARB LTD,**  
**TAIC 70% = Nortaic KS, NRC Nordmann & Rassmann,**  
**Peroxide: 2,5-Dimethyl-2,5-di-(tert-butylperoxy)hexane = Norperox**  
**DBPH-45, NRC Nordmann & Rassmann.**
- b) **Non post cure data is available.**

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