



## TECHNICAL INFORMATION

**DAI-EL™**  
Fluoroelastomer

**G-621BP**

### FEATURES

DAI-EL G-621BP is a high fluorine, bisphenol curable, gum terpolymer, processable by transfer and compression molding. DAI-EL G-621BP has excellent resistance to fuels and other solvents. It may be compounded for moderately fast cure and low compression set.

### TYPICAL PROPERTIES

|   |                                     |
|---|-------------------------------------|
| Fluorine content                              | 71%                                 |
| Specific gravity                              | 1.90                                |
| Mooney viscosity (ML <sub>1+10</sub> @ 121°C) | 53                                  |
| Color   | Clear to milky white                |
| Solubility                                    | Soluble in lower ketones and esters |

### TYPICAL APPLICATIONS

Molded o-rings, seals and gaskets, especially where low fuel permeation is required

### FORM & PACKAGING

DAI-EL G-621BP 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 MSDS (Material 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-621BP          | 100 |
| MT Carbon Black (N-990) | 30  |
| Magnesium oxide         | 3   |
| Calcium hydroxide       | 6   |
| Bisphenol AF            | 2.0 |
| BTPPC                   | 0.5 |

| Rheological Properties                    | ODR                             | MDR                              |
|---|---------------------------------|----------------------------------|
| Temperature: 177 °C<br>Frequency: 100 cpm | Strain: 3°<br>Test time: 12 min | Strain: 0.5°<br>Test time: 6 min |
| ML (minimum torque), lb-in                | TBD                             | TBD                              |
| t <sub>s2</sub> (scorch time), minutes    | TBD                             | TBD                              |
| t'90 (time to 90% cure), minutes          | TBD                             | TBD                              |
| MH (maximum torque), lb-in                | TBD                             | TBD                              |

| Physical Properties                                      |                  |
|--|------------------|
| Press Cure   | 10 min at 177 °C |
| Post Cure  | 24 hr @ 232 °C   |
| Hardness, Shore A  | TBD              |
| Tensile strength, psi (Mpa)                              | TBD              |
| Elongation at break, %                                   | TBD              |
| 100% Modulus, psi (Mpa)                                  | TBD              |
| <b>Compression Set, ASTM D395 Method B (#214 O-ring)</b> |                  |
| 70 hours @ 200 °C, %                                     | TBD              |

| Low Temperature Retraction, ASTM D1329 |     |
|--|-----|
| TR10, °C                               | TBD |

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