TECHNICAL DATA SHEET

# *DAI-EL*® G-7200BP

## Characteristics

*DAI-EL*® G-7200BP is a bisphenol curable, gum copolymer with low Mooney viscosity. It is designed especially for injection molding of seals and other complex shapes.

| Properties* | Value |
|---|---|
| Fluorine content | 66% |
| Specific gravity | 1.81 |
| Mooney viscosity (ML1+10@121°C) | 24 |
| Color | White to pale brown |
| Solubility | Soluble in lower ketones and esters |

***Typical properties are not suitable for specification purposes.**

## Typical Applications

Seals, gaskets, molded tubing

## Form & Packaging

*DAI-EL*® G-7200BP 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-7200BP | 100 |
| MT Carbon Black (N-990) | 30 |
| Magnesium oxide | 3 |
| Calcium hydroxide | 6 |
| Bisphenol AF | 2 |
| Phosphonium accelerator | 0.5 |

| Rheological Properties | MDR 2000 | ODR |
|---|---|---|
| Temperature: 177°C<br>Frequency: 100 cpm | Strain: 0.5°<br>Test time: 6’ | Strain: 3°<br>Test time: 12’ |
| ML (minimum torque), lb-in (dNm) | 0.5 (0.6) | 5.0 (5.7) |
| MH (maximum torque), lb-in (dNm) | 20.4 (23.1) | 98 (110) |
| $t_s2$ (scorch time), minutes | 1.0 | 1.6 |
| t’50 (time to 50% cure), minutes | 1.2 | 2.4 |
| t’90 (time to 90% cure), minutes | 1.6 | 2.6 |

| Physical Properties | | |
|---|---|---|
| Press Cure<br>Post Cure | 10 min at 177 °C<br>24 hrs @ 232 °C | 5 min @ 177 °C<br>24 hrs @ 260 °C |
| Hardness, Shore A | 78 | 78 |
| Tensile strength, MPa (psi) | 11.8 (1720) | 11.3 (1640) |
| Elongation at break, % | 210 | 190 |
| 100% Modulus, MPa (psi) | 5.5 (790) | 5.4 (780) |
| Compression Set, ASTM D395 Method B (#214 O-ring) | | |
| 70 hours @ 200 °C, % | 18 | 19 |

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



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