

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 Frequency: 100 cpm	Strain: 0.5° Test time: 6'	Strain: 3° 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	10 min at 177 °C	5 min @ 177 °C
Post Cure	24 hrs @ 232 °C	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

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