

## DAI-EL® G-663BP

### Characteristics

DAI-EL® G-663BP is a medium-low viscosity, bisphenol curable, gum terpolymer. It offers superior fluid resistance and low temperature flexibility compared with copolymers of similar fluorine content.

### Properties\*

Fluorine content	66%
Specific Gravity	1.80
Mooney viscosity (ML <sub>1+10</sub> @ 121°C)	27
Color	White to pale beige
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-663BP 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 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-663BP	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6
Bisphenol AF	2
BTPPC	0.5

Rheological Properties	MDR2000
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6 min
ML (minimum torque), lb-in (dNm)	0.9 (1.0)
MH (maximum torque), lb-in (dNm)	20.5 (23.2)
t <sub>s2</sub> (scorch time), minutes	0.8
t'50 (time to 50% cure), minutes	0.9
t'90 (time to 90% cure), minutes	1.2

Physical Properties	
Press Cure	10 min @ 177 °C
Post Cure	24 h @ 232 °C
Hardness, Shore A	72
Tensile strength, MPa (psi)	11.8 (1720)
Elongation at break, %	160
100% Modulus, MPa (psi)	6.2 (900)
Compression Set, ASTM D395 Method B (#214 O-ring)	
70 hours @ 200 °C, %	15.0

Low Temperature Retraction, ASTM D1329	
TR10, °C	-20

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