TECHNICAL DATA SHEET

DAI-EL® G-310LBP

Characteristics

DAI-EL® G-310LBP is a low viscosity bisphenol curable, gum copolymer. It has excellent mold flow for transfer or injection molding. Properly compounded, *DAI-EL*® G-310LBP produces vulcanizates with excellent heat and compression set resistance.

Properties*	Value
Fluorine content	66%
Specific gravity	1.81
Mooney viscosity (ML1+10@121°C)	23
Color	Beige to pale brown
Solubility	Soluble in lower ketones and esters

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

Typical Applications

O-rings, shaft seals, gaskets, molded tubing

Form & Packaging

DAI-EL® G-310LBP 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-310LBP	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6
Bisphenol AF	2
Phosphonium accelerator	0.5

Rheological Properties	MDR2000
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6 min
ML (minimum torque), lb-in (dNm)	0.7 (0.8)
MH (maximum torque), lb-in (dNm)	20.7 (23.4)
t_s2 (scorch time), minutes	1.0
t'50 (time to 50% cure), minutes	1.2
t'90 (time to 90% cure), minutes	1.9

Physical Properties	
Press Cure Post Cure	10 min @ 177 °C 24 h @ 232 °C
Hardness, Shore A	78
Tensile strength, MPa (psi)	14.2 (2060)
Elongation at break, %	200
100% Modulus, MPa (psi)	5.8 (840)
Compression Set, ASTM D395 Method B (#214 O-ring)	
70 hours @ 200 °C, %	16

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

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