

DAI-EL® G-EXP-008

Characteristics

DAI-EL® G-EXP-008 is a cure incorporated copolymer with low Mooney viscosity. It is designed for injection molding of O-rings, seals and other parts where fast cure speed and high elongation are required.

Properties*	Value
Fluorine content	66%
Specific gravity	1.81
Mooney viscosity (ML1+10@121°C)	20
Color	White to off-white
Solubility	Soluble in lower ketones and esters
Storage stability (Room temp.)	Excellent

*Typical properties are not suitable for specification purposes.

Typical Applications

O-rings, shaft seals, gaskets

Form & Packaging

DAI-EL® G-EXP-008 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-EXP-008	100
MT Carbon Black (N-990)	30
Magnesium oxide	3
Calcium hydroxide	6

Rheological Properties	MDR2000
Temperature: 177°C Frequency: 100 cpm	Strain: 0.5° Test time: 6'
ML (minimum torque), lb-in (dNm)	0.7 (0.8)
MH (maximum torque), lb-in (dNm)	14.5 (16.4)
t _{s2} (time to 50% cure), minutes	1.5
t'50 (time to 50% cure), minutes	1.8
t'90 (time to 90% cure), minutes	2.7

Physical Properties	
Press Cure	10 min at 177 °C
Post Cure	24 hrs @ 232 °C
Hardness, Shore A	74
Tensile strength, MPa (psi)	14.4 (2080)
Elongation at break, %	300
100% Modulus, MPa (psi)	3.9 (570)
Compression Set, ASTM D395 Method B (#214 O-ring)	
70 hours @ 200 °C, %	17

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

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