

DAI-EL® G-741-A

DAI-EL® G-741-A is a cure-incorporated copolymer with medium Mooney viscosity. It has excellent mold flow compared with fluoroelastomers of similar Mooney viscosity, making it well suited for injection, transfer or compression molding. Properly compounded and cured, DAI-EL® G-741-A produces seals and other parts with excellent heat and compression set resistance.

Properties*

Fluorine content	66%
Specific gravity	1.81
Mooney viscosity (ML1+10 @ 121 C)	40
Color	White to cream
Solubility	Soluble in lower ketones and esters

*Typical properties are not suitable for specification purposes.

Applications

Shaft seals, gaskets, molded tubing

Form & Packaging

DAI-EL® G-741-A 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-741-A	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 min
ML (minimum torque), lb-in (dNm)	1.3 (1.4)
MH (maximum torque), lb-in (dNm)	21.9 (24.7)
t _{s2} (scorch time), minutes	1.6
t'90 (time to 90% cure), minutes	3.2

Physical Properties	
Press Cure Post Cure	10 min at 177 °C 24 hrs @ 232 °C
Hardness, Shore A	75
Tensile strength, MPa (psi)	17.5 (2540)
Elongation at break, %	200
100% Modulus, MPa (psi)	6.9 (1000)
Compression Set, ASTM D395 Method B (#214 O-ring)	
70 hours @ 200 °C, %	9.0

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

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