晨光科慕氟材料(上海)有限公司
The Chemours Chenguang Fluoromaterials (Shanghai) Co., Ltd.

FKM A-201C-G2

Introduction ▸

FKM A-201C-G2 fluoroelastomer is an incorporated cure dipolymer designed for injection molding of sealing devices that must meet major fluoroelastomer specifications. In addition to the chemical and heat resistance characteristics typical of fluoroelastomers, FKM A-201C-G2 offers significant improvements in processing and rheology. FKM A-201C-G2 can be blended with similar FKM dipolymer to provide variations in processing, properties, and shrinkage.

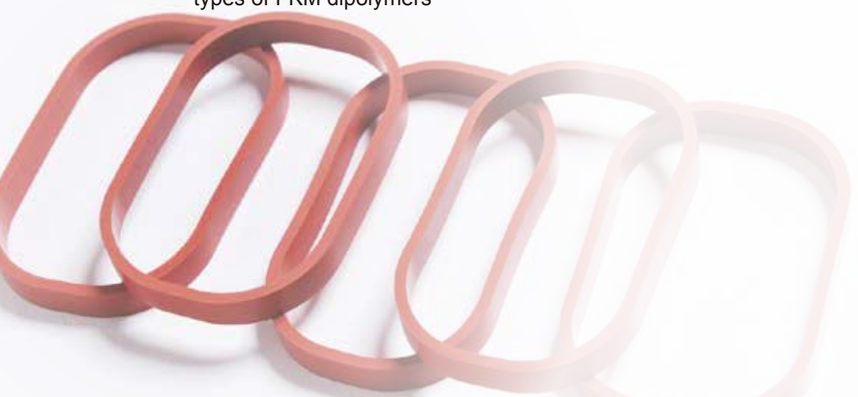
Features ▸

- Fully precompounded
  - O-ring curative levels
- Improved injection molding
  - Improved mold flow
  - Easier mold release
  - Less mold fouling
- Excellent scorch safety
- Excellent compression set resistance

Product Description	FKM A-201C-G2
Chemical Composition	Dipolymer of hexafluoropropylene and vinylidene fluoride, plus cure chemicals
Physical form	sheet
Odor	None
Mooney Viscosity (ML 1+10 at 121°C)	21
Specific Gravity	1.81
Storage Stability	Excellent
Solubility	Low molecular weight esters and ketones

Applications ▸

- Transfer and injection molding
  - O-rings, gaskets, seals, and other complex shapes
- Extrusions
  - Hose and solid fluoroelastomer tubing
  - O-ring cord
- Can be used to modify viscosity of other types of FKM dipolymers



Safety and Handling ▸

Keep off skin and wash well after handling. For the safe handling of other compounding ingredients, refer to the respective manufacturers' literature

Table 1. Performance of FKM A-201C-G2 in typical compound

Formulation of Full Compound ▸

Ingredients	FKM A-201C-G2
FKM A-201C-G2	100
N990 MT carbon black	30
Calcium hydroxide	6
Magnesium oxide (High activity)	3

Rheology Properties ▸

Mooney Viscosity (ML 1+10 121°C)	44
MDR at 177°C, 0.5arc, 8min	
ML [dNm]	0.8
MH [dNm]	29.9
Ts1 [min]	1.3
T90 [min]	2.7

Physical Properties ▸

Slab cure 10min at 177°C	
Post cure: 24h at 230 °C	
Stress/strain at 23°C-original	
Tensile properties [MPa]	13.3
Elongation at break [%]	187
Modulus at 100 % [MPa]	6.8
Hardness, shore A, points	84
Stress/strain at 23°C-After ageing for 70h at 275 °C	
Tensile properties [MPa]	9.6
Elongation at break [%]	207
Modulus at 100 % [MPa]	4.9
Hardness, shore A, points	84
Compression set, %, Type B, 25% Deflection	
70 hours at 200°C	22