

FKM A-361C-G2

Introduction ▶

FKM A-361C-G2 is an incorporated cure dipolymer designed for the injection and transfer molding of parts requiring better metal adhesion along with the fluid and heat resistance characteristics typical of fluoroelastomers. The moderate viscosity level of FKM A-361C-G2 also allows for satisfactory compression molding of parts.

Features▶

- Fully precompounded
 - Reduced curative level
 - Incorporated metal adhesion promoter
- Improved processing
 - Increased mold flow
 - Easier mold release with less mold fouling
 - Improved demolding "hot tear"
- Good metal bonding with standard industrial primers

Product Description	FKM A-361C-G2
Chemical Composition	Dipolymer of hexafluoropropylene and vinylidene fluoride, plus cure chemicals and metal adhesion promoter
Physical form	sheet
Odor	None
Mooney Viscosity (ML 1+10 at 121°C)	29
Specific Gravity	1.81
Storage Stability	Excellent
Solubility	Low molecular weight esters and ketones

Applications ▶

Compression, transfer, and injection molding of

- O-rings and gaskets
- Valve stem and crankshaft seals (and other bonded parts requiring fluid and heat resistance of the FKM dipolymer)

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-361C-G2 in typical compound

Formulation of Full Compound▶

Ingredients	FKM A-361C-G2
FKM A-361C-G2	100
N990 MT carbon black	30
Calcium hydroxide	6
Magnesium oxide (High activity)	3

Rheology Properties ▶

Mooney Viscosity (ML 1+10 at 121°C)	60
MDR at 177°C, 0.5arc, 8min	
ML [dNm]	1.0
MH [dNm]	22.6
Ts1 [min]	1.1
T90 [min]	2.5

Physical Properties ▶

Slab cure 10min at 177°C	
Post cure: 24h at 230 °C	
Stress/strain at 23°C-original	
Tensile properties [MPa]	13.5
Elongation at break [%]	234
Modulus at 100 % [MPa]	5.2
Hardness, shore A, points	77
Stress/strain at 23°C-After ageing for 70h at 275 °C	
Tensile properties [MPa]	8.9
Elongation at break [%]	286
Modulus at 100 % [MPa]	3.3
Hardness, shore A, points	77
Compression set, %, Type B, 25% Deflection	
70 hours at 200°C	24
Adhesion to Metal (Steel), 90° Peel (primed with 20%/80% Megum® 3290-1/ethanol) F max [N/mm]	40.5