

FKM 2603G2

Introduction ▶

FKM 2603G2 fluoroelastomer is a medium-viscosity di-polymer that demonstrates improved processing when compared with existing fluoroelastomers.

Features ▶

Compared with other di-polymers, FKM 2603G2 provides:

- Improved compression molding
- Better mold release
- Less mold fouling
- Excellent scorch safety
- Improved compression set resistance
- Improved heat aging resistance

Product Description	FKM 2603G2
Chemical Composition	Dipolymer of hexafluoropropylene and vinylidene fluoride
Physical form	sheet
Fluorine content	66%
Odor	None
Mooney Viscosity (ML 1+10 at 121°C)	70
Specific Gravity	1.82
Storage Stability	Excellent
Solubility	Low molecular weight esters and ketones

Applications ▶

- Compression molding
 - O-rings
 - Gaskets
 - Seals
- Preferred material for fuel system
 - Fuel Injector O-ring

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

Packing Specification ▶

25Kg

Table 1. Performance of FKM 2603G2 in typical compound

Formulation of Full Compound ▶

Ingredients	FKM 2603G2
FKM 2603G2	97.5
Viton™ Curative No.50	2.5
N990 MT carbon black	30
Calcium hydroxide	6
Magnesium oxide (High activity)	3

Rheology Properties ▶

Mooney Viscosity (ML 1+10 at 121°C)	99
MDR at 177°C, 0.5arc, 8min	
ML [dNm]	2.6
MH [dNm]	33.18
Ts1 [min]	0.91
T90 [min]	2.15

Physical Properties ▶

Slab cure: 10min at 177°C	
Post cure: 24h at 230 °C	
Stress/strain at 23°C-original	
Tensile properties [MPa]	14.6
Elongation at break [%]	202
Modulus at 100 % [MPa]	7.0
Hardness, shore A, points	80
After heat aging 72h at 275°C	
Tensile properties [MPa]	10.6
Elongation at break [%]	214
Modulus at 100 % [MPa]	4.8
Hardness, shore A, points	80
Compression set, %, Type B, 25% Deflection	
70 hours at 200°C	18.7

