

# 127501079

## FKM 75 black

Rev. 04

### General Application Temperature Range

From -20°C  
To +230°C

### General Environmental Application

Chemicals  
Hydrocarbons  
High Temp.  
Hydrogen

### Curing System

Bisphenol AF

### Compliances

Hydrogen Compatibility  
According to SAE J2600,  
clause 5.5.3

### Note

#### Disclaimer

Tests performed on test slabs. Temperatures, applications, and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.

### PHYSICAL AND MECHANICAL PROPRIETIES

| Property         | Test STD    | Unit              | Value       |
|------------------|-------------|-------------------|-------------|
| Density          | ASTM D297   | g/cm <sup>3</sup> | 1.86 ± 0.03 |
| Hardness         | ASTM D2240  | Shore A           | 75 ± 5      |
| Tensile Strength | ASTM D412 C | MPa               | > 14        |
| Elongation       | ASTM D412 C | %                 | > 170       |

### LOW TEMPERATURE RESISTANCE

| Property | Test STD   | Unit | Value |
|----------|------------|------|-------|
| TR10     | ASTM D1329 | °C   | < -16 |

### COMPRESSION SET TESTS

| Parameters  | Test STD    | Unit | Value |
|-------------|-------------|------|-------|
| 24h @ 200°C | ASTM D395 B | %    | < 15  |
| 72h @ 200°C | ASTM D395 B | %    | < 21  |

### AGEING PROPERTIES

#### Heat Aging - 1008h @ 175°C Standard: ASTM D573

| Properties       | Unit    | Value |
|------------------|---------|-------|
| Hardness         | Shore A | + 2.0 |
| Tensile Strength | %       | - 5.3 |
| Elongation       | %       | - 6.2 |
| Volume           | %       |       |
| Weight           | %       |       |

#### Heat Aging - 72h @ 250°C Standard: ASTM D573

| Properties       | Unit    | Value |
|------------------|---------|-------|
| Hardness         | Shore A | + 3.5 |
| Tensile Strength | %       | -7.4  |
| Elongation       | %       | - 6.8 |
| Volume           | %       |       |
| Weight           | %       |       |

#### IRM OIL 902 - 70h @150°C Standard: ASTM D471

| Properties       | Unit    | Value |
|------------------|---------|-------|
| Hardness         | Shore A | -1.0  |
| Tensile Strength | %       | - 1.7 |
| Elongation       | %       | + 0.8 |
| Volume           | %       | + 0.6 |
| Weight           | %       | + 0.4 |

#### TetrachloroEthylene - 70h @23°C Standard: ASTM D471

| Properties       | Unit    | Value |
|------------------|---------|-------|
| Hardness         | Shore A | - 1.0 |
| Tensile Strength | %       |       |
| Elongation       | %       |       |
| Volume           | %       | + 0.4 |
| Weight           | %       | + 0.2 |