



EUROPEAN
SEALING
TECHNOLOGY

Seals for industry

FKM SHEET

FLUOROELASTOMER

Technical data sheet



European Sealing Technology - Industrial sealing solutions

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FKM SHEET PRODUCT

PROPERTIES

Fluorocarbons are high-performance, high-cost rubbers known generally as Viton (Du Pont) and Fluorel (3M).

Type

'A' Type Dipolymer Min. 66% Fluorine Content

Colour

Black

Hardness

75° (+/-5°) Shore 'A'

Specific Gravity

1.9 g/cm³

Tensile Strength

≥ 6MPa

Elongation at Break

≥ 270%

Tear Resistance

≥ 20 N/mm

Temperature Range

In air :

-20°C to 200°C

232°C (3,000 hours)

260°C (1,000 hours)

288°C (240 hours)

In Oil:

Max 150°C

In water/Steam:

Max 100°C

Chemicals characteristics

FKM present good resistance in:

Organic acids (dilute and concentrated), inorganic acids, alcohol's, animal & vegetable oils, diester oils, aryl phosphate esters, petroleum based fuels & oils including aliphatic hydrocarbons, aromatic hydrocarbons, non-aromatic hydrocarbons, biodiesel, extended or oxygenated fuels; as well halogenated solvents, halogenated hydrocarbons, mineral oils, LP gases & fuels, and silicone oils.



FKM is recommended for its:

Flame resistance, low gas permeability, ozone resistance, oxidation resistance, steam resistance, sunlight resistance, weather resistance, and water resistance.

FKM is not recommended for its performance in :

Organic acids concentrated, aldehydes, alkalis concentrated, amines, brake fluids, alkyl phosphate esters, ethers, ketones, lacquer solvents, and refrigerant ammonia.