



FKM FLUORINE RUBBER GASKET (220~300°C)

High Performance Fluoroelastomer Sealing Solution for Extreme Environments

PRODUCT OVERVIEW

FKM (Fluoroelastomer) gaskets are engineered for high temperature and aggressive chemical environments. They deliver excellent sealing performance, superior durability and long service life in demanding industrial applications.

- High Temperature Resistance Up to 300°C
- Excellent Chemical Resistance Acids, Bases, Oils, Fuels
- Low Compression Set Long-term Sealing Reliability
- Excellent Mechanical Properties High Strength & Elasticity
- Weather & Ozone Resistance Outdoor & Harsh Environment
- Custom Die Cutting Any Shape, Any Size



MATERIAL STRUCTURE



- ☒ Dense FKM Fluoroelastomer
- ☒ Homogeneous Structure
- ☒ Non-porous
- ☒ High Purity
- ☒ Excellent Chemical Stability

OPERATING TEMPERATURE RANGE



CONTINUOUS USE
-20°C ~ 220°C

MAXIMUM (SHORT TERM)
300°C

PHYSICAL PROPERTIES (TYPICAL VALUES)

Property	Test Method	Unit	Typical Value
Hardness (Shore A)	ASTM D2240	Shore A	70 ± 5
Density	ASTM D792	g/cm ³	1.80
Tensile Strength	ASTM D412	MPa	≥ 12.0
Elongation at Break	ASTM D412	%	≥ 200
Compression Set (70h @ 200°C)	ASTM D395 B	%	≤ 25
Compression Set (70h @ 300°C)	ASTM D395 B	%	≤ 35
Tear Strength	ASTM D624 B	kN/m	≥ 25
Modulus at 100%	ASTM D412	MPa	≥ 3.0
Modulus at 300%	ASTM D412	MPa	≥ 8.0
Specific Gravity	ASTM D792	—	1.78 ~ 1.82
Flame Resistance	UL 94	—	V-0 (Optional)

* The above data are typical values and not to be used as specification limits.

THICKNESS OPTIONS

Thickness (mm)	Tolerance (mm)
0.5	±0.10
1.0	±0.10
1.5	±0.10
2.0	±0.10
3.0	±0.15
5.0	±0.20
6.0	±0.20
8.0	±0.20
10.0	±0.25
Custom	Available

HARDNESS RANGE (SHORE A)

60 Shore A
70 Shore A (Standard)
75 Shore A
80 Shore A
90 Shore A
Custom Hardness Available

CHEMICAL RESISTANCE (EXCELLENT)

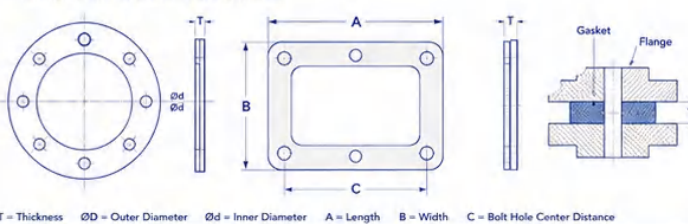
Oils & Fuels	★★★★★
Hydraulic Fluids	★★★★★
Aliphatic Hydrocarbons	★★★★★
Aromatic Hydrocarbons	★★★★★
Acids (Dilute)	★★★★☆
Bases (Dilute)	★★★★☆
Ketones	★★★★☆
Esters	★★★☆☆
Steam	★★★☆☆

★★★★★ Excellent ★★★★★ Good ★★★★★ Moderate ★★★★★ Limited

STANDARD SHEET DIMENSIONS

Size (mm)	Thickness Range (mm)
500 × 500	0.5 ~ 10
1000 × 1000	0.5 ~ 10
1200 × 1200	0.5 ~ 10
1500 × 1500	0.5 ~ 10
Custom Size	Available

DIMENSIONAL DRAWING EXAMPLE



TYPICAL APPLICATIONS

- Chemical Processing Equipment
- Automotive & Aerospace
- Oil & Gas Industry
- Semiconductor Equipment
- Pumps & Compressors
- High Temperature Pipelines
- Valves & Flanges
- Industrial Machinery

PRECISION DIE-CUT GASKET PROFILES (EXAMPLES)

