



ASTM D2000 M2 HK814 A1-10 B38 EF31 EO78

Metric FKM 90 ShA O-rings

Fluorocarbon Rubber

FKM O-rings have excellent chemical resistance and can be used at temperature range of between -15°C and 200°C, making them highly suited for applications involving high temperatures. This O-ring material boasts a hardness rating of 90 ShA, which is beneficial in applications in which sealing pressure is high.

The terms FPM, FKM and Viton® can lead to incorrect interpretations. These designations stand for one single base material: fluorocarbon rubber. Viton® however is the registered trademark of the Chemours company.

RS Components is also able to supply specially compounded FKM O-rings meeting Norsok M710, FDA, USP Class VI, UL94 V0, EN549, Viton® A, B, G, GF, GLT, GFLT, ETP standards on special request. Please contact us for further information.

Colour: Black

Operating temperature range: -15°C to 200°C

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D 2240	Shore A	91
Tensile Strength	ASTM D 412	Mpa	14
Elongation	ASTM D 412	%	110
Specific Gravity		g/cm ³	1.87 ±0.03
Compression Set 22h / 200°C	ASTM D 395 B	%	16

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	250	1	-6	-10	-
ASTM IRM Oil 903	ASTM D 471	70	150				3
ASTM 101 Service Liquid	ASTM D 471	70	200	-8	-16	-13	14
ASTM Fuel C	ASTM D 471	70	23	-5	-17	-18	3

Chemical resistance:

- Mineral oil and grease, ASTM oil No. 1, and IRM 902 and IRM 903 oils
- Non-flammable hydraulic fluids (HFD)
- Silicone oil and grease
- Mineral and vegetable oil and grease
- Aliphatic hydrocarbons (butane, propane, natural gas)
- Aromatic hydrocarbons (benzene, toluene)
- Chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride)
- Gasoline (including high alcohol content)
- High vacuum
- Very good ozone, weather and aging resistance

Not compatible with:

- Glycol based brake fluids
- Ammonia gas, amines, alkalis
- Superheated steam
- Low molecular weight organic acids (formic and acetic acids)

	Millimetres (mm)				Inches (")				
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Standard Reference
2560762	3	0.14	1	0.08	0.118	0.005	0.039	0.003	
2560765	4	0.14	1	0.08	0.157	0.005	0.039	0.003	
2560766	6	0.16	1	0.08	0.236	0.006	0.039	0.003	
2560767	8	0.17	2	0.08	0.314	0.006	0.078	0.003	
2560755	12.4	0.21	3.5	0.1	0.488	0.008	0.137	0.004	
2560756	20	0.26	3.5	0.1	0.787	0.01	0.137	0.004	
2560757	21.7	0.28	3.5	0.1	0.854	0.011	0.137	0.004	ISO 6149 - P22A
2560758	26.5	0.31	3.5	0.1	1.043	0.012	0.137	0.004	
2560759	26.7	0.31	3.5	0.1	1.051	0.012	0.137	0.004	
2560760	31.5	0.35	3.55	0.1	1.24	0.013	0.139	0.004	DIN 3771 - 31.5x3.55
2560761	33	0.36	3.5	0.1	1.299	0.014	0.137	0.004	
2560763	44	0.44	3	0.09	1.732	0.017	0.118	0.004	
2560764	45	0.44	3	0.09	1.771	0.017	0.118	0.004	