

V733 FKM Viton®

black | density 1.85 | hardness 70

03/07/2014

FKM VITON® 70 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

Viton® A. 66 % fluorine content.

ADVANTAGES

- ▶ Very good chemical resistance
- ▶ Excellent hydrocarbons resistance, either aliphatic, aromatic or chlorinated
- ▶ Good impermeability to gases
- ▶ Excellent air resistance
- ▶ Exceptional high temperature resistance
- ▶ Excellent ozone resistance
- ▶ Excellent resistance to acids and alkalis, including oxidants

BENEFITS

- ▶ Reliability
- ▶ Economy

APPLICATIONS

Pieces for general purpose applications in contact with following fluids:

- ▶ water (> + 80 °C)
- ▶ automotive and jet fuel
- ▶ aliphatic and aromatic hydrocarbons treatment products and fluids

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound</i>		FKM Viton®	
	<i>Density</i>		1.85 ± 0.05	g/cm ³
	<i>Hardness</i>	ASTM D2240	70 ± 5	Shore A
	<i>Tensile strength</i>	ISO 37	≥ 7	MPa
	<i>Elongation at break</i>	ISO 37	≥ 165	%
	<i>Compression set after 22 h at 175 °C</i>	ISO 815-1	≤ 55	%
TEMPERATURE				
	<i>Working temperature</i>		- 10/+ 250	°C
AGEING				
	<i>Δ Hardness after 70 h at 150 °C</i>	ASTM D573	≤ 10	Shore A
	<i>Δ Tensile strenght after 70 h at 150 °C</i>	ASTM D573	≤ - 20	%
	<i>Δ Elongation at break after 70 h at 150 °C</i>	ASTM D573	≤ - 45	%
OIL RESISTANCE				
	<i>Oil IRM 901, Δ volume after 70 h at 150 °C</i>	ASTM D471	≤ 2	%
	<i>Oil IRM 903, Δ volume after 70 h at 150 °C</i>	ASTM D471	≤ 10	%
CHEMICAL RESISTANCE				
	<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>
	Very good	Very good	Very good	Good

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Pattern
1	± 0.3	1400	± 2 %	20	± 2 %	1.85	2 smooth sides
1.5	± 0.3	1400	± 2 %	15	± 2 %	2.78	2 smooth sides
2	± 0.3	1400	± 2 %	15	± 2 %	3.70	2 smooth sides
3	± 0.3	1400	± 2 %	10	± 2 %	5.55	2 smooth sides
4	± 0.4	1400	± 2 %	10	± 2 %	7.40	2 smooth sides
5	± 0.4	1400	± 2 %	10	± 2 %	9.25	2 smooth sides
6	± 0.5	1400	± 2 %	10	± 2 %	11.10	2 smooth sides
8	± 0.7	1400	± 2 %	5	± 2 %	14.80	2 smooth sides
10	± 1.0	1400	± 2 %	5	± 2 %	18.50	2 smooth sides

IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
Wrapping	Black polyethylene film.
Labelling	Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability.