

# 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](http://www.trelleborg.com/elastomerlaminates)

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
<b>MECHANICAL</b>				
<i>Rubber compound</i>			FKM Viton®	
<i>Density</i>			1.85 ± 0.05	g/cm <sup>3</sup>
<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	%
<b>TEMPERATURE</b>				
<i>Working temperature</i>			- 10/+ 250	°C
<b>AGEING</b>				
<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	%
<b>OIL RESISTANCE</b>				
<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	%
<b>CHEMICAL RESISTANCE</b>				
<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>	
<b>Very good</b>	<b>Very good</b>	<b>Very good</b>	<b>Good</b>	

## DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m <sup>2</sup> )	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

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