

V733 FKM Viton®

16/07/2014



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 - black</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>		- 20/+ 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)	Sides finish
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 ² , nominal weight, and product code to allow product traceability.