



FKM VITON™ SHEETING FOR TECHNICAL APPLICATIONS

FEATURES

Viton™ A: 66% fluorine content.

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

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

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound - black</i>		FKM VITON V733	
	<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	≥ 220	%
	<i>Compression set after 22 h at 175 °C</i>	ISO 815-1	≤ 55	%
TEMPERATURE				
	<i>Working temperature</i>		- 20/+ 250	°C
AGEING				
	Δ Hardness after 70 h at 150 °C	ASTM D573	≤ 10	Shore A
	Δ Tensile strenght after 70 h at 150 °C	ASTM D573	≤ 10	%
	Δ Elongation at break after 70 h at 150 °C	ASTM D573	≤ -25	%
OIL RESISTANCE				
	Oil IRM 901, Δ volume after 70h at 150°C	ASTM D471	≤2	%
	Oil IRM 903, Δ volume after 70h at 150°C	ASTM D471	≤5	%
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	Very good	

DIMENSIONS

<i>Thickness (mm)</i>	<i>Width (mm)</i>	<i>Length (m)</i>	<i>Weight (kg/m²)</i>	<i>Sides finish</i>
1 ± 0.3	1400 ± 2 %	20 ± 2 %	1.84	2 smooth sides
1.5 ± 0.3	1400 ± 2 %	15 ± 2 %	2.76	2 smooth sides
2 ± 0.3	1400 ± 2 %	15 ± 2 %	3.69	2 smooth sides
3 ± 0.3	1400 ± 2 %	10 ± 2 %	5.53	2 smooth sides
4 ± 0.4	1400 ± 2 %	10 ± 2 %	7.37	2 smooth sides
5 ± 0.4	1400 ± 2 %	10 ± 2 %	9.22	2 smooth sides
6 ± 0.5	1400 ± 2 %	10 ± 2 %	11.06	2 smooth sides
8 ± 0.7	1400 ± 2 %	5 ± 2 %	14.74	2 smooth sides
10 ± 1.0	1400 ± 2 %	5 ± 2 %	18.45	2 smooth sides

IDENTIFICATION

<i>Branding</i>	Without. 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.

Warranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.