

**MATERIAL DATA SHEET****VITON (FKM 50) BLACK**

**DESCRIPTION** A fluorine containing hydrocarbon polymer, is a high performance synthetic rubber. These polymers provide outstanding resistance to heat, oils, oxidation and many other chemicals (unsuitable for Acetone).

**TYPICAL PHYSICAL PROPERTIES**

<b>HARDNESS</b>	75 +/- 5 <sup>o</sup> Shore
<b>TENSILE STRENGTH</b>	9 Mpa
<b>TENSILE STRENGTH CHANGE</b> (Heated air @ 70 <sup>o</sup> c for 168 hours)	-2%
<b>ELONGATION (Minimum)</b>	200%
<b>ELONGATION CHANGE</b> (Heated air @ 70 <sup>o</sup> C for 168 hours)	-5%
<b>TEMPERATURE (Short term for 10hr)</b>	+300 <sup>o</sup> C
<b>TEMPERATURE (Continuous 1000hr)</b>	-29 <sup>o</sup> C to 225 <sup>o</sup> C
<b>COMPRESSION SET (24 hours @ 70<sup>o</sup> c)</b>	<30%

**OIL RESISTANCE**

* ASTM OIL No.1 @ 20°C	EXCELLENT
* ASTM OIL No.1 @ 100°C	150 <sup>o</sup> C EXCELLENT
* ASTM OIL No.3 @ 20°C	EXCELLENT
* ASTM OIL No.3 @ 100°C	150 <sup>o</sup> C EXCELLENT

**FUEL RESISTANCE**

* ASTM FUEL B @ 40°C	EXCELLENT
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<b>SHELF LIFE</b>	10 YEARS + 5
<b>PERMEABILITY TO GASES</b>	VERY LOW
<b>FLAME RESISTANCE</b>	SELF-EXTINGUISHING
<b>CONDUCTIVITY</b>	CONDUCTIVE
<b>RESILIENCE</b>	FAIR
<b>TEAR STRENGTH</b>	GOOD

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