

**EPDM 50 Black - Sulphur cured 5051911127**

Ultra high molecular weight - EPDM - compounded to give comparable dynamic properties to Efficient-Vulcanisation NR. The compound is specifically designed for use in the place of EV NR in high temperature applications. The highly saturated EPDM polymer provides inherent resistance to ozone and high temperature oxidative degradation, ensuring the properties are stable for the service life of the product, this is an area where the compound excels and is far superior to NR at up to 120°C.

Press Cure	10 minutes @ 165 °C
Post Cure	N/a
Service Temperature Range	- 50°C to 125°C

**Original Properties**

	Units	Typical Result
Hardness	Shore A	48
Tensile Strength	MPa	21.5
Modulus at 100%	MPa	1.0
Modulus at 300%	MPa	2.6
Elongation to Break	%	760

**Hot air resistance after 70hrs @ 100 °C**
**ISO 188: 2011**

	Units	Typical Result
Hardness change	Shore A	+3
Tensile Strength change	%	+2
Elongation to Break change	%	-4
Modulus at 100%	MPa	1.1
Modulus at 300%	MPa	3.2

**Hot air resistance after 70hrs @ 125 °C**
**ISO 188: 2011**

	Units	Typical Result
Hardness change	Shore A	+7
Tensile Strength change	%	+1
Elongation to Break change	%	-5
Modulus at 100%	MPa	1.3
Modulus at 300%	MPa	3.8

**Hot air resistance after 168hrs @ 100 °C**
**ISO 188: 2011**

	Units	Typical Result
Hardness change	Shore A	+5
Tensile Strength change	%	-6
Elongation to Break change	%	-11
Weight loss	%	0
Modulus at 100%	MPa	1.2
Modulus at 300%	MPa	3.6

**Hot air resistance after 168hrs @ 125 °C**
**ISO 188: 2011**

	Units	Typical Result
Hardness change	Shore A	+8
Tensile Strength change	%	-1
Elongation to Break change	%	-10
Weight loss	%	-2
Modulus at 100%	MPa	1.4
Modulus at 300%	MPa	4.5

**Compression set after 70h @ 100 °C**
**ISO 815-1: 2014**

	Units	Typical Result
Set	%	29

**Compression set after 70h @ 125 °C**
**ISO 815-1: 2014**

	Units	Typical Result
Set	%	53

**IMPORTANT NOTE**

All information based on judgment is offered in good faith. Where no empirical data for the compound exists Clwyd Compounds Ltd. accepts no liability express or implied as to its validity.

**Please contact us for further information:**

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