

EPDM 50 Black - Peroxide cured 5052911136

Ultra high molecular weight - EPDM - the base polymer has a narrow MwD and it exhibits exceptional dynamic and mechanical properties. The compound is peroxide catalysed to improve the high temperature resistance up towards 150°C.

Press Cure	10 minutes @ 165 °C
Post Cure	2 hours @ 150 °C
Service Temperature Range	- 50°C to 150°C

Original Properties

	Units	Typical Result
Hardness	Shore A	47
Tensile Strength	MPa	21.2
Modulus at 100%	MPa	0.9
Modulus at 300%	MPa	3.0
Elongation to Break	%	741

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

	Units	Typical Result
Hardness change	Shore A	+2
Tensile Strength change	%	+12
Elongation to Break change	%	-1
Modulus at 100%	MPa	1.0
Modulus at 300%	MPa	3.3

Hot air resistance after 70hrs @ 150 °C
ISO 188: 2011

	Units	Typical Result
Hardness change	Shore A	+3
Tensile Strength change	%	+17
Elongation to Break change	%	-3
Modulus at 100%	MPa	1.0
Modulus at 300%	MPa	3.8

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

	Units	Typical Result
Hardness change	Shore A	+3
Tensile Strength change	%	+12
Elongation to Break change	%	-4
Weight loss	%	-2
Modulus at 100%	MPa	1.0
Modulus at 300%	MPa	3.5

Hot air resistance after 168hrs @ 150 °C
ISO 188: 2011

	Units	Typical Result
Hardness change	Shore A	+4
Tensile Strength change	%	+6
Elongation to Break change	%	-6
Weight loss	%	-5
Modulus at 100%	MPa	1.2
Modulus at 300%	MPa	4.8

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

	Units	Typical Result
Set	%	32

Compression set after 70h @ 150 °C
ISO 815-1: 2014

	Units	Typical Result
Set	%	45

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.

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