FKM 90 (ED) (2)

This compound is based on a high fluorine peroxide cured FKM polymer and uses a special filler, that not only gives the optimum tensile strength and elongation properties of this class of polymer, but also imparts excellent release characteristics. The polymer is suitable for Hydrocarbon & oxygenated Fuels, Aliphatic & Aromatic Hydrocarbon Process Fluids, Water, Steam, and Mineral Acids (H2SO4, HNO3, HCl, etc.). It is not suitable for strong alkalines, amines, or sour gases such as hydrogen sulphide.

Press Cure	10 minutes @ 165 ºC
Post Cure	16 hours @ 220 ºC
Service Temperature Range	- 2ºC to 200ºC
Peak Working Temperature	+ 250ºC

Original Properties

BS ISO 48-2 / ASTM D2240 / ISO 37 (Type 2) / ISO 34-1 (Method C)

	Units	Typical Result
Hardness	ShoreA	89
Hardness	IRHD	89
S.G.	-	1.99
Tensile Strength	MPa	21
M100	MPa	10
Elongation to Break	%	225
Tear Strength	N/mm	41

Compression set (24h @ 200°C)

BS ISO 815-1 (Method A)

	Units	Typical Result
Set	%	34

Hot air resistance (72hrs @ 200°C)

BS ISO 188

	Units	Typical Result
Hardness change	ShoreA	+1
Tensile strength change	%	-12
Elongation at break change	%	-25

Immersion in IRM903 oil (72hrs @ 150°C)

BS ISO 1817

	Units	Typical Result
Hardness change	ShoreA	-2
Tensile strength change	%	-13
Elongation at break change	%	-12
Volume change	%	+1

IMPORTANT NOTE

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

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