

FREUDENBERG FUEL CELL GASKET FOR PEMFC AND DMFC

TECHNICAL DATA

MATERIAL

Hardness (DIN 53505)
Temperature Range in °C
Tensile Strength in MPa (ISO 37)
Compression Set in % in air measured / 180°C / 25% compressed / 70h (ISO 815)

(Rev. 01 – 26.02.2010)

65 FC-FKM 100	
	FKM
	65 ± 5 Shore A
	-30 ... 180
	17
	< 20

MATERIAL

Hardness (DIN 53505)
Temperature Range in °C
Tensile Strength in MPa (ISO 37)
Compression Set in % in air measured / 180°C / 25% compressed / 70h (ISO 815)

(Rev. 00 – 26.02.2010)

65 FC-FKM 200	
	FKM
	65 ± 5 Shore A
	-20 ... 200
	10
	< 20

MATERIAL

Hardness (DIN 53505)
Temperature Range in °C
Tensile Strength in MPa (ISO 37)
Compression Set in % in air measured / 120°C / 25% compressed / 24h (ISO 815)
in air measured / 150°C / 25% compressed / 70h (ISO 815)
in 2.5M methanol solution pH2 / 90°C / 25% compressed / 1000h (ISO 815)

(Rev. 01 – 26.02.2010)

35 FC-PO 100	
	Polyolefin Elastomer
	35 ± 5 Shore A
	-40 ... 120
	2
	< 20
	< 35
	< 45

MATERIAL

Hardness (DIN 53505)
Temperature Range in °C
Tensile Strength in MPa (ISO 37)
Compression Set in % in air measured / 120°C / 25% compressed / 24h (ISO 815)

(Rev. 01 – 26.02.2010)

40 FC-LSR 100	
	Silicon Elastomer
	40 ± 5 Shore A
	-40 ... 100
	5
	< 25

All values represent averages which are subject to normal production tolerances. The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry. The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

CONTACT

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