

**FKM – BLACK
90 SHORE HARDNESS
TECHNICAL DATASHEET**

CURE SYSTEM: BISPHENOL

Temperature Range: -20°C to +204° C

Specification Met:

ASTM 2000 M2HK910 A1-10 B38 EF31 EO78 F15

PHYSICAL PROPERTIES

PARAMETERS	UNIT	ASTM TEST METHOD	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness	Shore A	ASTM D 2240	90 ± 5	90
Tensile Strength	Mpa	ASTM D 412	Min 10.0	12.5
Elongation At Break	%	ASTM D 412	Min 100	165
Specific Gravity	g/cm3	ASTM D 297	--	1.90

RESISTANCE TO HEAT -- ASTM D 573 (70 Hrs At 250°C) -- A10	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change, Points	Max +10	+2
Tensile Strength Change %	Max -25	+2
Elongation Change %	Max -25	-12

COMPRESSION SET -- ASTM D395 – B38	REQUIREMENT ASTM D2000	ISG TEST VALUE
Compression Set % 22 hrs @ 200°C	Max 50	20

RESISTANCE TO FUEL C -- ASTM D 471 (70 Hrs At 23°C) -- EF31	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change, Points	±5	-3
Tensile Strength Change %	Max -25	-16
Elongation Change %	Max -20	-11
Volume Change %	0 To +10	+7

RESISTANCE TO OIL 101 -- ASTM D 471 (70 Hrs At 200°C) – EO78	REQUIREMENT ASTM D2000	ISG TEST VALUE
Hardness Change, Points	-15 To +5	-10
Tensile Strength Change %	Max -40	-15
Elongation Change %	Max -20	-7
Volume Change %	0 To +10	+10

LOW TEMP RESISTANCE -- ASTM D 2137 – F15	REQUIREMENT ASTM D2000	ISG TEST VALUE
Non-Brittle After 3Min @ -25°C	--	PASS

Ref Date: 23rd April 2023