

EVASEALS®

NBR (NITRILE) – BLACK 70 SHORE HARDNESS TECHNICAL DATASHEET

CURE SYSTEM: SULPHUR

Temperature Range: -30° C to +100° C

Shelf Life: 15 Years

Specification Met:

ASTM D2000 M2BG714 A14 B14 EA14 EF11 EF21 EO14 EO34 F17

PHYSICAL PROPERTIES

PARAMETERS	REQUIREMENT ASTM D2000	TEST VALUE
Hardness, Shore A (ASTM D 2240)	70 ± 5	70
Tensile Strength, Mpa (ASTM D412)	Min 14.0	14.4
Elongation At Break, % (ASTM D 412)	Min 250	325
Specific Gravity, g/cm ³ (ASTM D 297)	--	1.27

RESISTANCE TO HEAT -- ASTM D 573 (70 Hrs At 100°C) – A14	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	±15	+3
Tensile Strength Change %	± 30	+10
Elongation Change %	Max -50	-28

COMPRESSION SET -- ASTM D395 – B14	REQUIREMENT ASTM D2000	TEST VALUE
Compression Set % 22hrs @ 100°C	Max 25	12%

RESISTANCE TO WATER -- ASTM D 471 (70 Hrs At 100°C) – EA14	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	±10	-5
Volume Change %	± 15	+10

RESISTANCE TO FUEL A -- ASTM D 471 (70 Hrs At 23°C) – EF11	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	±10	-4
Tensile Strength Change %	Max -25	-15
Elongation Change %	Max -25	--20
Volume Change %	-5 To 10	+5

RESISTANCE TO FUEL B -- ASTM D 471 (70 Hrs At 23°C) – EF21	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	-30 To 0	-15
Tensile Strength Change %	Max -60	-39
Elongation Change %	Max -60	-33
Volume Change %	0 To +40	+23

RESISTANCE TO OIL 901 -- ASTM D 471 (70 Hrs At 100°C) – EO14	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	-5 To +10	+7
Tensile Strength Change %	Max -25	+7
Elongation Change %	Max -45	+25
Volume Change %	-10 To +5	-8

RESISTANCE TO OIL 903 -- ASTM D 471 (70 Hrs At 100°C) – EO34	REQUIREMENT ASTM D2000	TEST VALUE
Hardness Change, Points	-10 To +5	+7
Tensile Strength Change %	Max -45	+7
Elongation Change %	Max -45	+25
Volume Change %	-10 To +25	+6

LOW TEMP RESISTANCE -- ASTM D 2137 – F17	REQUIREMENT ASTM D2000	TEST VALUE
Non-Brittle After 3Min @ -40°C	--	PASS

Ref Date: 01st April 2020