

# Data Sheet: EP70PC

## MATERIAL: ETHYLENE PROPYLENE 70 PEROXIDE CURED

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40°C to +150°C

SPECIFICATION: M4CA710A25B35EA14F19 Z1=DOT#3 Fluid test

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	73
TENSILE STRENGTH, PSI	1450	2042
ELONGATION, %	200	255
SPECIFIC GRAVITY		1.179

### HEAT AGEING @ 70 hrs @ 125°C

HARDNESS CHANGE, POINTS	+10	+2
TENSILE STRENGTH CHANGE %	-20	-1
ELONGATION CHANGE %	-40	-7
VOLUME CHANGE		-0.4

### HEAT AGEING @ 70 hrs @ 150°C

HARDNESS CHANGE, POINTS		+4
TENSILE STRENGTH CHANGE %		-7
ELONGATION CHANGE %		-12
VOLUME CHANGE		-1.2

### COMPRESSION SET

22 hrs at 125°C	70	19
22 hrs at 150°C	SLAB	33
70 hrs at 100°C	SLAB	19

### WATER RESISTANCE @ 70 hrs @ 100°C

HARDNESS CHANGE, POINTS		-2
TENSILE STRENGTH CHANGE %		+8
ELONGATION CHANGE %		+2
VOLUME CHANGE %		+/-5 +1.2

### FLUID RESISTANCE, No.3.OIL 70 hrs @ 150°C

HARDNESS CHANGE, POINTS		-4
TENSILE STRENGTH CHANGE %		0
ELONGATION CHANGE %		+16
VOLUME CHANGE %		+2.6

LOW TEMPERATURE: NON BRITTLE AFTER 3 MIN @ -40°C PASS

*The above test results are based on test slabs / buttons. The results from the actual parts may be different.*

Issue Date: 01.12.2017