

Data Sheet: V75PC

MATERIAL: VITON[®] 75 SHORE PEROXIDE CURED

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -20°C to 205°C continuous (-30°C to 225°C peaks)

SPECIFICATION: ASTM D2000 M2HK714 A1-10 B37 B38 EF31 EO78 EO88 Z1
Z1 = +75+/-5 Shore A

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A (Z1)	75±5	78
TENSILE STRENGTH, psi (MPa)	2031 (min)	2352 (16.22)
ELONGATION %	175	311
MODULUS @ 100%, psi (MPa)		570 (3.93)
SPECIFIC GRAVITY		1.86

HEAT AGEING 70 hrs @ 250°C

HARDNESS CHANGE, POINTS	+10	+3
TENSILE STRENGTH CHANGE %	-25	+5
ELONGATION CHANGE %	-25	+15
WEIGHT CHANGE %		-1.6

HEAT AGEING 70 hrs @ 275°C

HARDNESS CHANGE, POINTS	+10	+3
TENSILE STRENGTH CHANGE %	-40	-30
ELONGATION CHANGE %	-20	+38
WEIGHT CHANGE %		-3.8

COMPRESSION SET

22 hrs @ 175°C %	50	20.7
22 hrs @ 200°C %	50	24.2

FLUID RESISTANCE, Fuel C 70 hrs @ 23°C

HARDNESS CHANGE, POINTS	+/-5	-5
TENSILE STRENGTH CHANGE %	-25	-20
ELONGATION CHANGE %	-20	-5
VOLUME CHANGE %	0/+10	+4.7

FLUID RESISTANCE, Fluid No. 101, 70 hrs @ 200°C

HARDNESS CHANGE, POINTS	-15/+5	-13
TENSILE STRENGTH CHANGE %	-40	-16
ELONGATION CHANGE %	-20	-8
VOLUME CHANGE %	0/+15	+11.2

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PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
FLUID RESISTANCE, HATCO 7700 Oil, 70 hrs @ 200°C		
HARDNESS CHANGE, POINTS	-15/+5	-14
TENSILE STRENGTH CHANGE, %	-40	-21
ELONGATION CHANGE, %	-20	-7
VOLUME CHANGE, %	+25	+15.7

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

Issue Date: 05.06.2015