

Data Sheet: V70

MATERIAL: VITON[®] 70 SHORE – GENUINE DUPONT POLYMER

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M4HK710 A1-11 B38 EF31 EO78 Z1 Z2

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	ASTM D2240-05	75±5	72
TENSILE STRENGTH, PSI (MPa)	ASTM D412-06A	1450 (MIN)	1786 (12.31)
ELONGATION, %	ASTM D412-06A	175 (MIN)	211
MODULUS AT 100%, PSI (MPa)	ASTM D412-06A		906(6.24)
SPECIFIC GRAVITY (g/cm ³)			1.989

HEAT AGE, 70 hrs @ 275°C

HARDNESS CHANGE, PTS	ASTM D573-04	+10 (MAX)	+5
TENSILE STRENGTH CHANGE, %	ASTM D573-04	-40 (MAX)	-37
ELONGATION CHANGE, %	ASTM D573-04	-20 (MAX)	+4
WEIGHT CHANGE, %	ASTM D573-04		-5.1

COMPRESSION SET

22 hrs @ 200°C, METHOD B	ASTM D395-03	50% (PLIED) (MAX)	21.5
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ASTM FUEL C RESISTANCE, 70 hrs @ 23°C

HARDNESS CHANGE, PTS	ASTM D471-12	±5	-4
TENSILE STRENGTH CHANGE, %	ASTM D471-12	-25 (MAX)	-23
ELONGATION CHANGE, %	ASTM D471-12	-20 (MAX)	+8
VOLUME CHANGE, %	ASTM D471-12	0~+10	+5.8

ASTM No. 101 OIL, 70 hrs @ 200°C

HARDNESS CHANGE, PTS	ASTM D471-12	-15~+5	-7
TENSILE STRENGTH CHANGE, %	ASTM D471-12	-40 (MAX)	-26
ELONGATION CHANGE, %	ASTM D471-12	-20 (MAX)	+10
VOLUME CHANGE, %	ASTM D471-12	0~+15	+10.9

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

Issue Date: 03.12.2014