

LABORATORY REPORT

MATERIAL : **FLUOROCARBON RUBBER** E-07-C
 COMPOUND: **GV90 (Viton A type)**
 SPEC.: **ASTM D2000 M2HK910 A1-10 B38 EF31 EO78 EO88**
 COLOR: **BLACK**

Original Physical Properties

	<u>Requirements</u>	<u>Results</u>
Hardness, (Shore A) (ASTM D2240-05)	90±5	88
Tensile Strength, psi (MPa) (ASTM D412-06a)	1450(min)	2232(15.39)
Elongation, (%) (ASTM D412-06a)	100(min)	136
Modulus at 100%,psi (MPa) (ASTM D412-06a)		1590(10.96)
Specific Gravity (g/cm ³)		1.832

A1-10 Heat Age, 70 Hrs @ 250°C (ASTM D573-04)

Hardness Change, pts	+10(max)	+3
Tensile Strength Change, %	-25(max)	-12
Elongation Change, %	-25(max)	-12
Weight Change, %		-1.8

B38 Compression Set, 22 Hrs @ 200°C (ASTM D395-03,Method B) 50%(plied)(max) **20.6**

EF31 ASTM Fuel C Resistance, 70Hrs @ 23°C (ASTM D471-06)

Hardness Change, pts.	±5	-1
Tensile Strength Change, %	-25(max)	-13
Elongation Change, %	-20(max)	-10
Volume Change, %	0~+10	+2.4

EO78 ASTM No.101 Oil, 70 Hrs @ 200°C (ASTM D471-06)

Hardness Change, pts.	-15~+5	-9
Tensile Strength Change, %	-40(max)	-24
Elongation Change, %	-20(max)	-1
Volume Change, %	0~+15	+10.7

EO88 ASTM 7700 / SAE Oil, 70 Hrs @ 200°C (ASTM

Hardness Change, pts.	-15~+5	-12
Tensile Strength Change, %	-40(max)	-16
Elongation Change, %	-20(max)	-9
Volume Change, %	+25(max)	+15.2