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**LABORATORY REPORT**

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E-07-D  
Date:Dec/13/2019

**MATERIAL :** FLUOROCARBON RUBBER  
**COMPOUND:** GV75BR  
**SPEC.:** ASTM D2000 M2HK810 A1-10 B37 EF31 EO78 Z1  
 Z1=75±5 SHORE A  
**COLOR:** BROWN

	<u>Requirements</u>	<u>Results</u>
<b><u>Original Physical Properties</u></b>		
<b>Z1</b> Hardness,(shore A) (ASTM D2240-15 <sup>e1</sup> )	75±5	74
Tensile Strength,psi(MPa) (ASTM D412-16)	1450(10)(min)	2205(15.21)
Elongation,(%) (ASTM D412-16)	150(min)	195
Modulus at 100%,psi(MPa) (ASTM D412-16)		1181(8.14)
Density,(Mg/m <sup>3</sup> ) (CNS 5341-96,Method A)		2.04
<b><u>A1-10 Heat age, 70 Hrs @ 250 °C (ASTM D573-04)</u></b>		
Hardness Change, pts.	+10(max)	+1
Tensile Strength Change, %	-25(max)	+4
Elongation Change, %	-25(max)	-18
Weight Change, %		-2.5
<b><u>B37 Compression set, 22 Hrs @ 175 °C (ASTM D395-18,Method B)</u></b>		
	50%(plied)(max)	10.0
<b><u>EF31 ASTM Fuel C Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)</u></b>		
Hardness Change, pts.	±5	-3
Tensile Strength Change, %	-25(max)	-14
Elongation Change, %	-20(max)	-1
Volume Change, %	0~+10	+3.2
<b><u>EO78 ASTM No. 101 Oil, 70 Hrs @ 200 °C (ASTM D471-16a)</u></b>		
Hardness Change, pts.	-15~+5	-5
Tensile Strength Change, %	-40(max)	-13
Elongation Change, %	-20(max)	-8
Volume Change, %	0~+15	+10.0