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LABORATORY REPORT

MATERIAL： **ETHYLENE PROPYLENE** **E-07-D**
COMPOUND： **E7051AA** **Date:Jan/02/2019**
SPEC.： **ASTM D2000 M5CA710 A25 B35 C32 EA14 F17 G21 Z1 Z2**
Z1= meet to FDA 21 CFR 177.2600
Z2=Service Temperature -55℃ ~ +125℃
COLOR： **BLACK**

	Original Physical Properties	Requirements	Results
	Hardness, (Shore A) (ASTM D2240-15$^{\varepsilon 1}$)	70±5	72
	Tensile Strength, psi (MPa) (ASTM D412-16)	1450(10)(min)	1529(10.54)
	Elongation, (%) (ASTM D412-16)	200(min)	285
	Modulus at 100%, psi (MPa) (ASTM D412-16)		685(4.72)
	Density, (Mg/m^3) (CNS 5341-96, Method A)		1.27
G21	Tear Resistance, (ASTM D624-00)	26kN/m(die C)(min)	27.12
A25	Heat Age, 70 Hrs @ 125 ℃ (ASTM D865-11)		
	Hardness Change, pts.	+10(max)	+1
	Tensile Strength Change, %	-20(max)	+1
	Elongation Change, %	-40(max)	-15
	Weight Change, %		+0.2
B35	Compression Set, 22 Hrs @ 125 ℃ (ASTM D395-18, Method B)	50%(plied)(max)	47.2
EA14	Water Resistance, 70 Hrs @ 100 ℃ (ASTM D471-16a)		
	Hardness Change, pts.		0
	Tensile Strength Change, %		-4
	Elongation Change, %		-9
	Volume Change, %	±5	+1.0
C32	Ozone 50 pphm, 70 Hrs @ 40 ℃ (ASTM D1171-18)	no-cracks	pass
F17	Low-Temperature Brittleness Point Test, 3 minute @ -40 ℃ (ASTM D2137-11, Method C)		
	Sample type: T-50,		
	Coolant : Isopropyl alcohol,		
	Low Temperature Property,	no-cracks	pass

APPROVAL Ru-Li **AUDIT Chian-Yi Lee** **REPORT Jing-Yu Hua**
(Lab Manager) **(Chemical Engineer)** **(Laboratory Specialist)**

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