

LABORATORY REPORT

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MATERIAL : ETHYLENE PROPYLENE
COMPOUND : E7042AA
SPEC. : ASTM D2000 M3DA710 A26 B36 EA14 F19 G11 G21 Z1 Z2 Z3 Z4
 Z1=Elongation 150% min.
 Z3=NSF 61 CERTIFICATION
 Z4=Service Temperature -55°C ~ +125°C
COLOR : BLACK

E-07-D
DATE : Nov/27/2019

<u>Original Physical Properties</u>	<u>Requirements</u>	<u>Results</u>
Hardness, (Shore A) (ASTM D2240-15^{e1})	70±5	70
Tensile Strength, psi(MPa) (ASTM D412-16)	1450(10)(min)	2269(15.65)
<u>Z1</u> Elongation, (%) (ASTM D412-16)	150(min)	159
Modulus at 100%, psi(MPa) (ASTM D412-16)		903(6.23)
<u>G11</u> Tear resistance, (kN/m) (ASTM D624-00, die B)	17(min)	20.22
<u>G21</u> Tear resistance, (kN/m) (ASTM D624-00, die C)	17(min)	21.43
Density, (Mg/m³) (CNS 5341-96, Method A)		1.06
<u>A26 Heat Age, 70 Hrs @ 150°C (ASTM D865-11)</u>		
Hardness Change, pts	+10(max)	+2
Tensile Strength Change, %	-20(max)	-11
Elongation Change, %	-20(max)	-10
Weight Change, %		+0.3
<u>B36 Compression Set, 22 Hrs @ 150°C (ASTM D395-18, Method B)</u>	25%(plied)(max)	16.8
<u>EA14 Water Resistance, 70 Hrs @ 100°C (ASTM D471-16a)</u>		
Hardness Change, pts.		-1
Tensile Strength Change, %		-15
Elongation Change, %		-14
Volume Change, %	±5	+1.3
<u>Z2 Chloramine 50ppm Resistance, 3 weeks @ 70°C (ASTM D6248)</u>		
<u>PH=9.0 (adjust with NH₄OH)</u>		
Hardness Change, pts.		-2
Tensile Strength Change, %		-6
Elongation Change, %		-8
Volume Change, %		+1.1

