

LABORATORY REPORT

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MATERIAL : ETHYLENE PROPYLENE
 COMPOUND: E7041AA
 SPEC.: ASTM D2000 M3DA710 A26 B36 C32 EA14 G11 G21 F19 Z1 Z2
 Z1=NSF 61 CERTIFICATION
 Z2=Service Temperature -55°C ~ +125°C
 COLOR: BLACK

E-07-D

Date:May/04/2020

<u>Original Physical Properties</u>	<u>Requirements</u>	<u>Results</u>
Hardness,(shore A)(ASTM D2240-15 ^{e1})	70±5	72
Tensile Strength,psi(MPa)(ASTM D412-16)	1450(10)(min)	2444(16.86)
Elongation,(%)(ASTM D412-16)	200(min)	206
Modulus at 100%,psi(MPa)(ASTM D412-16)		880(6.07)
Density,(Mg/m ³)(CNS 5341-96,Method A)		1.09
<u>G11 Tear resistance, (ASTM D624-00)</u>	17kN/m(Die B)(min)	36.87
<u>G21 Tear resistance, (ASTM D624-00)</u>	17kN/m(Die C)(min)	23.64
<u>A26 Heat age, 70 Hrs @ 150 °C (ASTM D865-11)</u>		
Hardness Change, pts.	+10(max)	-1
Tensile Strength Change, %	-20(max)	-1
Elongation Change, %	-20(max)	+4
Weight Change, %		+0.2
<u>B36 Compression set, 22 Hrs @ 150 °C (ASTM D395-18,Method B)</u>	25%(plied)(max)	16.1
<u>EA14 Water resistance, 70 Hrs @ 100 °C (ASTM D471-16a)</u>		
Hardness Change, pts.		0
Tensile Strength Change, %		-3
Elongation Change, %		0
Volume Change, %	±5	+0.3
<u>F19 Low-Temperature Brittleness Point Test, 3 minute @ -55 °C (ASTM D2137-11,Method C)</u>		
Sample type: T-50,		
Coolant : Isopropyl alcohol,		
Low Temperature Property,	no-cracks	PASS
<u>C32 Ozone Resistance, 50 pphm, 70 Hrs @ 40 °C (ASTM D1171-18)</u>	no-cracks	PASS

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