



LABORATORY REPORT

MATERIAL : ETHYLENE PROPYLENE
COMPOUND: E7006AA
SPEC.: ASTM D2000 M3BA710 A14 B13 C12 EA14 F17 Z1
 Z1=MEET TO FDA21 CFR 177.2600
COLOR: BLACK

Page:1/1
 E-07-C
 Date:Aug/10/2017

<u>Original Physical Properties</u>		<u>Requirements</u>	<u>Results</u>
Hardness,(shore A)(ASTM D2240-15)		70±5	71
Tensile Strength,psi(MPa)(ASTM D412-15a)		1450(10)(min)	2133(14.71)
Elongation,(%)(ASTM D412-15a)		250(min)	337
Modulus at 100%,psi(MPa)(ASTM D412-15a)			611(4.21)
Specific Gravity,(g/cm ³)			1.11
<u>A14 Heat age, 70 Hrs @ 100 °C (ASTM D573-04)</u>			
Hardness Change, pts.		+10(max)	+1
Tensile Strength Change, %		-25(max)	0
Elongation Change, %		-25(max)	-12
Weight Change, %			0
<u>B13 Compression set, 22 Hrs @ 70 °C (ASTM D395-16,Method B)</u>			
		25%(button)(max)	7.1
<u>C12 Ozone Resistance, 50pphm, 70 Hrs @ 40 °C (ASTM D1171-16)</u>			
		no-crack	pass
<u>EA14 Water resistance, 70 Hrs @ 100 °C (ASTM D471-16a)</u>			
Hardness Change, pts.			+1
Tensile Strength Change, %			0
Elongation Change, %			-7
Volume Change, %		±5	+1.0
<u>F17 Low-Temperature Brittleness Point Test, 3 minute @ -40 °C (ASTM D2137-11,Method A)</u>			
Sample type: T-50			
Coolant : Isopropyl alcohol			
Brittleness temperature to nearest 1°C		no-cracks	pass

APPROVAL Ru-Ling Liu
 (Lab Manager)

AUDIT Chian-Yi Lee
 (Chemical Engineer)

REPORT Ya-Chi Cher
 (Laboratory Specialist)

TR17000950