



APPLE RUBBER PRODUCTS INC.

Laboratory Test Report

Compound: 12BN7AP

Description: HNBR, 70 Shore A, Black

Test Samples: Test Slabs

Temperature Range: -40°C to + 150°C (-40°F to +302°F)

Recommend For: Petroleum Oil, Natural Gas, Fuel oil, LP-Gas, Liquid Propylene, Gasoline

Not Recommend For: Aromatic Fuels, Ethers, Esters, ketones, or Chlorinated hydrocarbons.

Agency Status: UL Listed File JMLU2.MH14216

Standard Test Specification: ASTM D2000 M4DH716B36EO16EO36F17

Original Physical Properties

Requirement Test Results

Durometer (ASTM D2240), Shore A, Pts.

70 ± 5

75

Tensile (ASTM D412), MPa, min

16

24.5

Elongation (ASTM D412), %, min

250

351

Heat Resistance (ASTM D573) 70 hours @ 150°C

Hardness Change from Original Test Results, Pts.

± 15

+7

Tensile Change from Original Test Results, %

± 30

+3

Elongation Change from Original Test Results, %, max

-50

-30

Compression Set (ASTM D395), 22 hours @ 150°C

Compression, %, max

+35

+25

Headquarters

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1-800-828-7745

Manufacturing and Engineering

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Fluid Resistance (ASTM D471), 70 hours @ 150°C in ASTM Oil #1

Hardness Change from Original Test Results, Pts.	-5 to +10	+2
Tensile Change from Original Test Results, %, max	-20	+6
Elongation Change from Original Test Results, %, max	-30	-24
Volume Swell, %	-10 to +5	-5

Fluid Resistance (ASTM D471), 70 hours @ 150°C in ASTM Oil #3

Hardness Change from Original Test Results, Pts., max	-15	-3
Tensile Change from Original Test Results, %, max	-40	+7
Elongation Change from Original Test Results, %, max	-30	-10
Volume Swell, %, max	+25	+2

Low Temperature Resistance

Brittleness Point (ASTM D2137), 3 min @ -40C	Pass	Pass
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Date: March 13, 2013

Signature: *John A. Tranquill*

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