



# APPLE RUBBER PRODUCTS INC.

## Apple Rubber Products, Inc. Laboratory Report

**Compound:** 08FS4SX

**Material:** FVMQ, 40 Shore A Blue

**Test Samples:** Test Slabs with Post Cure 4 hours @ 400°F

**Temperature Range:** -60°C to + 150°C (-76°F to +302°F)

**Recommend For:** Petroleum Oil, Jet Fuel, Mineral Oils, High and Low Temperature

**Not Recommend For:** Dynamic Sealing, Brake Fluids, Hydrazines, Ketones,

**Specification:** Specification: AMS 3328

### Original Physical Properties

### **Requirement    Test Results**

Durometer (ASTM D2240), Shore A, Pts.	40 ± 5	42
Tensile (ASTM D412), psi, min	800	1662
Elongation (ASTM D412), %, min	225	557
Tear Resistance Die B (ASTM D624), lbf/in, min	40	108
Specific Gravity (ASTM D297)	1.43 +/- .03	1.44

### Heat Resistance (ASTM D573) 70 hours @ 200°C

Hardness Change from Original Test Results, Pts.,	-5 to +10	+1
Tensile Change from Original Test Results, %, max	-30	-10
Elongation Change from Original Test Results, %, max	-25	-14

### Compression Set (ASTM D395) 22 hours @ 175°C

Compression, %, max	+25	+21
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#### Headquarters

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## Fluid Resistance (ASTM D471) 22 hours @ 23°C in Fuel B

Hardness Change from Original Test Results, Pts., max	-15	-9
Tensile Change from Original Test Results, %, max	-65	-46
Elongation Change from Original Test Results, %, max	-60	-41
Volume Swell, %,	+5 to +30	+24

## Fluid Resistance (ASTM D471) 70 hours @ 150°C in AMS 3021

Hardness Change from Original Test Results, Pts., max	± 15	-11
Tensile Change from Original Test Results, %, max	+40	-28
Elongation Change from Original Test Results, %, max	+25	-10
Volume Swell, %,	+1 to +15	+12

## Low Temperature Resistance

TR-10 (ASTM D1329), °C, max	-57	-57.8
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Date: February 6, 2015

Signature: *John A. Tranquille*

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