

**Typical Properties of Cured Compound
Compound F-7027
75 Durometer Viton Rubber - UL Recognized, Category JMLU2***

Original Physical Properties	Requirements	Results
Hardness, (Shore A)		79.7
Tensile Strength, psi		2278
Elongation, (%)		201
Modulus at 100%,psi		1066
Specific Gravity (g/cm ³)		1.85
Heat Resistance, 360 Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	+8
Elongation Change,% Hand Flex Test	-40(max)	-8
Hand Flex Test	no deterioration	pass
Hardness Change, Shore A points	< 10 units	+2
Heat Resistance, 1440 Hrs @ 21°C		
Tensile Strength Change,%	-40(max)	-2
Elongation Change,% Hand	-40(max)	+2
Flex Test	no deterioration	pass
Hardness Change, Shore A points	< 10 units	+3
ASTM Fuel A Resistance, 70 Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	-1
Elongation Change,%	-40(max)	+6
Volume Change, %	-1 to +40%	+0.3
Extraction, % by Weight	<10%	0
ASTM Fuel C Resistance, 70 Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	-10
Elongation Change,%	-40(max)	-7
Volume Change, %	-1 to +40%	+3.3
Extraction, % by Weight	<10%	-0.8
ASTM Fuel C/Ethanol 85%/15% Resistance, 70 Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	-21
Elongation Change,%	-40(max)	-3
Volume Change, %	-1 to +40%	+6.9
Extraction, % by Weight	<10%	-1.7

IRM 903 Oil, 70 Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	-6
Elongation Change,%	-40(max)	-1
Volume Change, %	-1 to +25%	+0.1
n-Hexane Resistance, 70Hrs @ 23°C		
Tensile Strength Change,%	-40(max)	-7
Elongation Change,%	-40(max)	-1
Volume Change, %	-1 to +40%	+0.4
Extraction, % by Weight	<10%	0
ASTM No. 6 Oil Resistance, 28 Days @ 121°C		
Tensile Strength Change,%	-40(max)	-16
Elongation Change,%	-40(max)	+11
Volume Change, %	-1 to +40%	+4.7
Compression Set, 22 Hrs @ 70°C		
	15%(max)	5.3
Tensile Set Test, % Set		
	25%(max)	4
Low Temperature Resistance, 24 Hrs @ -25°C		
Mandrel Bend Test	no cracking	pass
Hand Flex Test	no cracking	pass
B100 Biodiesel Oil Resistance, 70Hrs @ 23°C (ASTM D471)		
Hardness Change, pts.		-6
Tensile Strength Change,%		-30
Elongation Change,%		-14
Volume Change, %		+8

***End Use Applications:**

- Gasoline
- Gasoline/ethanol blends up to 15% ethanol
- Naptha or kerosene
- Manufactured gas or natural gas
- Diesel fuel, fuel oil or lubricating oil
- Heated fuel oil
- Liquefied petroleum (LP) gas
- Atmospheric ozone
- UL 50/50E gasket applications