

**Typical Properties of Cured Compound
Compound N-7079
70 Durometer Nitrile Rubber - UL Recognized, Category JMLU2***

Original Physical Properties	Requirements	Results
Hardness, Shore A durometer points		74
Tensile Strength, psi		1599
Elongation, %		294
Modulus at 100%,psi		1641
Specific Gravity (g/cm ³)		1.34
Heat Resistance: 70 hr @ 100°C		
Hardness Change, max durometer points	+/- 10	+3
Tensile Change, %	-40 (max)	+11
Elongation Change, %	-40 (max)	-23
Hand Flex Test	no deterioration	pass
Heat Resistance: 168 hr @ 70°C		
Tensile Change, %	-25 (max)	+4
Elongation Change, %	-40 (max)	-9
Hand Flex Test	no deterioration	pass
Fluid Resistance: ASTM Reference Fuel A, 70 hr @ 23°C		
Tensile Change, %	-40 (max)	-1
Elongation Change, %	-40 (max)	-4
Change in weight, %	10% (max)	-0.8
Change in volume, %	-1 to +25	-0.8
Fluid Resistance: ASTM Reference Fuel C, 70 hr @ 23°C		
Tensile Change, %	-40 (max)	-19
Elongation Change, %	-40 (max)	-31
Change in weight, %	10% (max)	-1.6
Change in volume, %	-1 to +40	+21.9
Fluid Resistance: 85%Ref Fuel C/15% Ethanol, 70 hr @ 23°C		
Tensile Change, %	-40 (max)	-28
Elongation Change, %	-40 (max)	-37
Change in weight, %	10% (max)	-4.4
Change in volume, %	-1 to +40	+30.6

	Requirements	Results
Fluid Resistance: UL CE25a, 1000 hr @ 23°C		
Tensile Change, %	-40 (max)	-38
Elongation Change, %	-40 (max)	-26
Change in weight, %	10% (max)	-4.8
Change in volume, %	-1 to +40	+29.1
Fluid Resistance: UL CE85a, 1000 hr @ 23°C		
Tensile Change, %	-40 (max)	-15
Elongation Change, %	-40 (max)	-21
Change in weight, %	10% (max)	-6.6
Change in volume, %	-1 to +40	+5
Fluid Resistance: Kerosene (Type K Deodorized), 70 hr @ 23°C		
Tensile Change, %	-40 (max)	-1
Elongation Change, %	-40 (max)	-6
Change in volume, %	-1 to +25	+2.1
Fluid Resistance: IRM 903 Oil, 70 hr @ 23°C		
Tensile Change, %	-40 (max)	+2
Elongation Change, %	-40 (max)	+3
Change in volume, %	-1 to +25	-0.6
Fluid Resistance: n-Hexane, 70 hr @ 23°C		
Tensile Change, %	-40 (max)	-6
Elongation Change, %	-40 (max)	-9
Change in weight, %	10% (max)	-0.7
Change in volume, %	-1 to +25	+0.6
Compression Set: 22 hr @ 70°C		
Compression Set, %	n/a	8.8
Tensile Set: 100% Elongation @ 23°C		
Tensile Set, %	25% (max)	1.3
Low Temperature Resistance, 24 hr @ -35°C		
	no cracks	pass

***Recognized End Use Applications per UL157, UL50/50E, UL87A, UL87B, UL87C, UL 2586A, UL 2586B**

- Gasoline
- Gasoline/Alcohol blends up to 15% alcohol (ethanol)
- Naphtha or kerosene
- Manufactured gas or natural gas
- Diesel fuel, fuel oil or lubricating oil
- Liquefied petroleum (LP) gas
- Suitable for use in UL 50 "Enclosures for Electrical Equipment", (including oil immersion) gasket applications
- Suitable for use in UL 50E (periodic recompression) "Enclosures for Electrical Equipment, Environmental Considerations", (including oil immersion) gasket applications
- Suitable for use with gasoline/ethanol blends having an ethanol content up to 85% (E85) for static applications
- Suitable for use with gasoline/ethanol blends having an ethanol content up to 25% (E25) for static applications
- Suitable for use with gasoline/ethanol blends having an ethanol content up to 85% (E85) for dynamic applications
- Suitable for use with gasoline/ethanol blends having an ethanol content up to 25% (E25) for dynamic applications

The data shown here are provided as an engineering guide only, and should not be used for the purpose of establishing performance limits. These values were obtained using established standard test procedures, and are believed to be reliable. However, due to the variables that may be encountered in actual use, it is always advisable to test the material under actual service conditions before specification.