

## Material Profile: S70 (VMQ - Red)

S70 (VMQ - Red) provides excellent temperature service range with an extreme low temperature of -55°C. Outstanding resistance to Ozone and UV radiation while providing exceptional flexibility and fatigue life.

### Features and Benefits

- Excellent Low Temperature Capability
- Low Compression Set
- Excellent Resistance Ozone and UV
- Resistance to Dry Heat
- High Flexibility and insulating properties
- Cost Effective

### Recommended Applications

- Dry Etch
- LPCVD
- Resist Stripping
- UV Cure
- Chamber lids



Silicone (VMQ – Red)  
Service Temperature Range: -55°C to 200°C

### Typical Physical Properties

Color	Red
Shore A Durometer <sup>1</sup>	70
Tensile Strength, psi (MPa) <sup>2</sup>	928 (6.4)
Elongation <sup>3</sup>	232%
Compression Set: 22 hrs at 175°C <sup>4</sup>	19%
Service Temperature Range, °C (°F)	-55°C to 200°C (-58°F to 392°F)

<sup>1</sup>\* ASTM D2240-15

<sup>2</sup>\* ASTM D412-16

<sup>3</sup>\* ASTM D412-16

<sup>4</sup>\* ASTM D395B-18 (plied)

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