

SI700R02 Datasheet

Orange, FDA Compliant Silicone 70A

Overview

SI700R02 is an orange FDA compliant, Peroxide cured, 70 shore A Silicone VMQ rubber designed for use in food and a wide range of industry applications.

Features & Benefits

- FDA compliant to 21 CFR 177.2600
- Comparable to Parker S1138-70
- Good resistance to ozone, detergent, salt water, vegetable, and animal oils and much more.
- Available in a variety of colors and durometers and shapes.

Service Temperature

• -60°C to 205°C (-75°F to 400F)

Specification

 ASTM D 2000 M7GE705 A19 B37 E016 E036 F19

Test Data

Table 1. Physical Properties			
Test	Requirements	Results	
Color	Orange	Orange	
Hardness, Shore A	70+/-5	70	
Tensile Strength, psi	725 min	946	
(MPa)		(6.52)	
Elongation	150% min	210%	
Specific Gravity, g/cm ³		1.32	





Table 2. A19 - Heat Aging - 70 hrs at 225°C		
Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+6
Tensile Strength, %	-25 max	-9
Elongation, %	-30 max	-27

Table 3. B37 – Compression Set – 22 hrs at		
175°C		
Test (Change)	Requirements	Results
Permanent Set, %	30 max	11

Table 4. EUI6 - IRM 9UI UIL RESISTANCE - /U		
hrs at 150°C		
Test (Change)	Requirements	Results
Hardness, Shore	A -10 to 0	-4
Tensile Strength,	% -30 max	+12
Elongation, %	-20 max	+1
Volume, %	0 to +15	+4.2

Table 5. E036 – IRM 903 Oil Resistance –		
70 hrs at 150°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-19
Volume, %	+60 max	+39

Table 6. F19 – Low Temp Brittleness Test –		
3 mins at -55°C		
Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle

