



ENGLISH

Datasheet

RS PRO Silicone O-Ring

Stock Number: 527-9891

SPEC: ASTM D2000 M5GE706 A19 B37 EA14 EO16 EO36 F19 G11 Z1

Z1 COLOUR: RUST

| | <u>Original Physical Properties</u> | <u>Requirements</u> | <u>Results</u> |
|-------------|--|---------------------|----------------|
| | Hardness, (Shore A) (ASTM D2240-05) | 70±5 | 72 |
| | Tensile Strength, psi (Mpa) (ASTM D412-06a) | 870 (minimum) | 968 (6.67) |
| | Elongation, (%) (ASTM D412-06a) | 150 (minimum) | 235 |
| G11 | Tear resistance, (KN/m) (ASTM D624-00, die B) | 9 (minimum) | 12.87 |
| | Modulus at 100%, psi, (Mpa) (ASTM D412-06a) | | 645 (4.44) |
| | Specific Gravity (g/cm ³) | | 1.31 |
| A19 | <u>Heat Age, 70 Hrs @ 225°C (ASTM D573-04)</u> | | |
| | Hardness Change, pts | +10 (maximum) | +3 |
| | Tensile Strength Change, % | -25 (maximum) | -5 |
| | Elongation Change, % | -30 (maximum) | -26 |
| | Weight Change, % | | -2.3 |
| B37 | <u>Compression Set, 22 Hrs @ 175°C (ASTM D395-03, Method B)</u> | | |
| EA14 | <u>Water Resistance, 70 Hrs @ 100°C (ASTM D471-12a)</u> | | |
| | Hardness Change, pts | ±5 | ±2 |
| | Tensile Strength Change, % | | -5 |
| | Elongation Change, % | | -22 |
| | Volume Change, % | ±5 | +1.7 |
| EO16 | <u>IRM901 Oil, 70 Hrs @ 150°C (ASTM D471-12a)</u> | | |
| | Hardness Change, pts | -15 - 0 | -3 |
| | Tensile Strength Change, % | -20 (maximum) | +2 |
| | Elongation Change, % | -20 (maximum) | -11 |
| | Volume Change, % | 0 - +10 | +4.2 |
| EO36 | <u>IRM903 Oil, 70 Hrs @ 150°C (ASTM D471-12a)</u> | | |
| | Hardness Change, pts | -30 (maximum) | -16 |
| | Tensile Strength Change, % | | -15 |
| | Elongation Change, % | | -22 |
| | Volume Change, % | +60 (maximum) | +35.2 |
| F19 | <u>Low-Temperature Brittleness Point Test, 3 minutes at -55°C (ASTM D2137-11, Method A)</u> | | |
| | Sample type: T-50 | | |
| | Coolant: Isopropyl alcohol | | |
| | Brittleness temperature to nearest 1°C | No Croack | Pass |