



ENGLISH

## Datasheet

# RS PRO Silicone O-Ring

Stock Number: 527-9841

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
<b>G11</b>	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 <sup>3</sup> )		1.31
<b>A19</b>	<b><u>Heat Age, 70 Hrs @ 225°C (ASTM D573-04)</u></b>		
	Hardness Change, pts	+10 (maximum)	+3
	Tensile Strength Change, %	-25 (maximum)	-5
	Elongation Change, %	-30 (maximum)	-26
	Weight Change, %		-2.3
<b>B37</b>	<b><u>Compression Set, 22 Hrs @ 175°C (ASTM D395-03, Method B)</u></b>		
<b>EA14</b>	<b><u>Water Resistance, 70 Hrs @ 100°C (ASTM D471-12a)</u></b>		
	Hardness Change, pts	±5	±2
	Tensile Strength Change, %		-5
	Elongation Change, %		-22
	Volume Change, %	±5	+1.7
<b>EO16</b>	<b><u>IRM901 Oil, 70 Hrs @ 150°C (ASTM D471-12a)</u></b>		
	Hardness Change, pts	-15 - 0	-3
	Tensile Strength Change, %	-20 (maximum)	+2
	Elongation Change, %	-20 (maximum)	-11
	Volume Change, %	0 - +10	+4.2
<b>EO36</b>	<b><u>IRM903 Oil, 70 Hrs @ 150°C (ASTM D471-12a)</u></b>		
	Hardness Change, pts	-30 (maximum)	-16
	Tensile Strength Change, %		-15
	Elongation Change, %		-22
	Volume Change, %	+60 (maximum)	+35.2
<b>F19</b>	<b><u>Low-Temperature Brittleness Point Test, 3 minutes at -55°C (ASTM D2137-11, Method A)</u></b>		
	Sample type: T-50		
	Coolant: Isopropyl alcohol		
	Brittleness temperature to nearest 1°C	No Croack	Pass