ENGLISH

Datasheet

RS PRO Silicone O-Ring

Stock Number: 527-9835

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

	Original Physical Properties	**Requirements**	**Results**
	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/cm³)		**1.31**
A19	**Heat Age, 70 Hrs @ 225°C (ASTM D573-04)**		
	Hardness Change, pts	**+10 (maximum)**	**+3**
	Tensile Strength Change, %	**-25 (maximum)**	**-5**
	Elongation Change, %	**-30 (maximum)**	**-26**
	Weight Change, %		**-2.3**
B37	**Compression Set, 22 Hrs @ 175°C (ASTM D395-03, Method B)**		
EA14	**Water Resistance, 70 Hrs @ 100°C (ASTM D471-12a)**		
	Hardness Change, pts	**±5**	**±2**
	Tensile Strength Change, %		**-5**
	Elongation Change, %		**-22**
	Volume Change, %	**±5**	**+1.7**
EO16	**IRM901 Oil, 70 Hrs @ 150°C (ASTM D471-12a)**		
	Hardness Change, pts	**-15 - 0**	**-3**
	Tensile Strength Change, %	**-20 (maximum)**	**+2**
	Elongation Change, %	**-20 (maximum)**	**-11**
	Volume Change, %	**0 - +10**	**+4.2**
EO36	**IRM903 Oil, 70 Hrs @ 150°C (ASTM D471-12a)**		
	Hardness Change, pts	**-30 (maximum)**	**-16**
	Tensile Strength Change, %		**-15**
	Elongation Change, %		**-22**
	Volume Change, %	**+60 (maximum)**	**+35.2**
F19	**Low-Temperature Brittleness Point Test, 3 minutes at -55°C (ASTM D2137-11, Method A)**		
	Sample type: T-50		
	Coolant: Isopropyl alcohol		
	Brittleness temperature to nearest 1°C	**No Croack**	**Pass**