

**S50 – Red/Rust Color****Silicone 50 Durometer**

Specification: ASTM D2000 M5GE506 A19 B37 EA14 F19

<u>Original Properties:</u>	<u>Required Result</u>	
Hardness, Shore A, pts	50+/-5	51
Tensile Strength, psi, min	870	1155
Elongation, min, %, min	250	350
Tear resistance, Kgf/cm (Die C/ Die B)		17/ 15
Modulus at 100%, ASTM D412, psi		256
Modulus at 200%, ASTM D412, psi		522
Modulus at 300%, ASTM D412, psi		924
Specific Gravity		1.182
<u>A19 Heat Resistance: 70 h at 225C, ASTM D573</u>		
Hardness Change, pts, Shore A	+10	-5
Tensile Strength Change, %	-25	-21
Elongation Change, %	-30	+6
Volume Change, %		-0.4
<u>B37 Compression Set, 22 h at 175C, ASTM D395 Method B (Slab)</u>		
	25	22
<u>EA14 Water Resistance, 70 h at 100C, ASTM D471</u>		
Hardness Change, pts, Shore A	+/-5	0
Tensile Strength Change, %		-12
Elongation Change, %		+11
Volume Change, %	+/-5	+1.0
<u>F19 Low Temperature Resistance, ASTM D2137, Method A, 9.3.2, Nonbrittle after 3 min at -55C</u>		
	Pass	Pass

\* The above test result is tested by Chang Horing and it is based on the test slab/ test button. The actual parts will be different with this test result.

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