



MATERIAL DATA SHEET

MATERIAL REFERENCE: S4155

MATERIAL DESCRIPTION: Silicone 50 duro, Red/Rust

SPECIFICATION: ASTM D2000 M5GE506 A19 B37 EO16 EO36

CHARACTERISTICS	REQUIREMENTS	RESULT	DECISION
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506 PHYSICAL PROPERTIES, 23c

HARDNESS, ASTM D2240, SHORE A	50.00 +/- 5.00	48.00 PTS	OK
TENSILE STRENGTH, ASTM D412, MIN	10.50 +/- 4.50	7.39 MPA	OK
ULTIMATE ELONGATION, ASTM D412, MIN	425.00 +/- 175.00	390.00 %	OK
SPECIFIC GRAVITY, ASTM D297		1.15	OK

A19 HEAT RESISTANCE, ASTM D573, 70H, 225c

CHANGE IN HARDNESS	0.00 +/- 10.00	2.00 PTS	OK
CHANGE IN TENSILE STRENGTH	0.00 +/- 25.00	-15.74 %	OK
CHANGE IN ULTIMATE ELONGATION	0.00 +/- 30.00	-27.95 %	OK
CHANGE IN VOLUME	0.00 +/- 15.00	-1.28 %	OK

B37 COMPRESSION SET, ASTM D395, 22H, METHOD B, PLIED, 175c

COMPRESSION SET	12.50 +/- 12.50	14.17 %	OK
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EO16 OIL RESISTANCE, ASTM D471, ASTM OIL NO.1, 70H, 150c

CHANGE IN HARDNESS	-7.50 +/- 7.50	-2.00 PTS	OK
CHANGE IN TENSILE STRENGTH	0.00 +/- 20.00	-17.43 %	OK
CHANGE IN ULTIMATE ELONGATION	0.00 +/- 20.00	-12.78 %	OK
CHANGE IN VOLUME	5.00 +/- 5.00	3.46 %	OK

EO36 OIL RESISTANCE, ASTM D471, ASTM OIL IRM 903, 70H, 150c

CHANGE IN HARDNESS	0.00 +/- 30.00	-12.00 PTS	OK
CHANGE IN TENSILE STRENGTH	0.00 +/- 100.00	-42.64 %	OK
CHANGE IN ULTIMATE ELONGATION	0.00 +/- 100.00	-32.81 %	OK
CHANGE IN VOLUME	0.00 +/- 60.00	17.82 %	OK

DATA DERIVED FROM ASTM SLABS AND BUTTONS.

DATE: 02/02/2010