

Compound: SR70 – silicone 70 ShA
Colour: red
Complies with: ASTM D2000 M7GE705 A19 B37 EA14 EO16 EO36 F19

	Required	Tested
<u>Mechanical properties</u>		
Shore hardness (ShA):	70 ±5	73
Tensile strength (MPa):	5.0	5.7
Elongation at break (%):	150	266
Specific gravity:	n/a	1.292
<u>Thermal properties</u>		
Operating temperature range (°C):	n/a	- 50 to +225
Heat resistance test @ 225°C X 70 hours		
Hardness change (points):	+ 10	+4
Tensile strength change (%):	- 25	+0
Elongation change (%):	- 30	-3
<u>Compression set</u>		
Curing conditions:		
Press cure @ 170°C x 12 minutes		
Post cure @ 120°C x 1 hour		
Heat ageing @ 175°C x 22 hours (%)	30	9
ASTM No.1 oil immersion test @ 150°C X 70 hours		
Hardness change (points):	0 to -15	-3
Tensile Strength change (%):	-20	-3
Elongation change (%):	-20	-7
Volume change (%):	0 to +15	+4
ASTM No. 3 oil immersion test @ 150°C X 70 hours		
Hardness change (points):	-40	-5
Volume change (%):	+60	+18
Water resistance @ 100°C X 70 hours		
Hardness change (points):	±5	+2
Volume change (%):	±5	+3
Low temperature brittleness: 3 mins @ -55°C		non-brittle