

WSI Compound : S70-FDA

## TEST REPORT

Typical properties of cured compound

Material : Silicone 70, FDA  
Color : Red/Rust

Date issued : June 2016

Spec: ASTM D2000 M5GE705 A19 B37 EO16 EO36 G11 F19 Z1

Physical properties	Result	Spec.	ASTM Method
Hardness, Shore A (Type M)	70	70±5	D 2240-10
Tensile Strength, min, MPa	5.8	5	D 412-13
Elongation, min, %	198	150	D 412-13
Modulus at 100% elongation, psi	450	Report	D 412-13
<b>A19 Heat Resistance, 70 hrs at 225°C</b>			<b>D 573-10</b>
Hardness Change, max, points	+3	+10	
Tensile Change, max, %	-9	-25	
Elongation Change, max, %	-24	-30	
<b>B37 Compression Set, Method B</b>			<b>D 395-08</b>
22 hrs at 175°C, max, %	16	30	
<b>EO16 IRM901 Oil Resistance, 70 hrs at 150°C</b>			<b>D 471-12a</b>
Hardness Change, points	-5	0 to -15	
Tensile Change, max, %	-3	-20	
Elongation Change, max, %	-6	-20	
Volume Change, %	+5	0 to +10	
<b>EO36 IRM903 Oil Resistance, 70 hrs at 150°C</b>			<b>D 471-12a</b>
Hardness Change, points	-17	-30	
Volume Change, %	+33	+60	
<b>G11 Tear Resistance, Die B</b>			<b>D 624-12</b>
min, kN/m	19	9	
<b>F19 Low-temperature Resistance</b>			<b>D 2137-11</b>
Nonbrittle after 3 min at -55°C	Pass	Pass	
<b>Z1 FDA Compliant 21 CFR177.2600</b>			
Temperature Range -60°F to +400°F			

The above data is obtained through laboratory testing on slabs and buttons, and is for reference only.

Approved by

Du Gow Shyan  
R&D Manager

Reported by

Ms Hong  
R&D Quality staff