

Material Datasheet

Compound #: S75612

Silicone Rubber, Metal Detectable, FDA

Material Summary

Material Type:	Silicone Rubber
Durometer:	75
Color:	Red
Special Properties:	Metal Detectable, FDA
Recommended Temperature Range (Static):	-60°C to 225°C
Cure System:	Peroxide
Specification:	ASTM D2000 M7GE705 EA14 EO36 Z:HD75+/-5

Original Properties	Requirements	Typical Results
Durometer Hardness(1 sec) Shore A	75±5	76
International Hardness, point	-	79
Tensile Strength, psi, Die C	725	999
Elongation at Break, %, Die C	150	322
Tear Resistance, kgf/cm, Die C	-	19
Tear Resistance, kgf/cm, Die B	-	15
Modulus at 100%, psi, Die C	-	422
Modulus at 200%, psi, Die C	-	663
Modulus at 300%, psi, Die C	-	937
Specific Gravity	-	1.28
Shrinkage rate, %	-	-3.7
(EA14) Fluid Resistance, 70 Hrs @ 100 °C (ASTM D471)		
Hardness Change, points	±5	1
Tensile Strength Change, percent	-	-10
Elongation Change, percent	-	-7
Volume Change, percent	±5	1.2
(EO36) Fluid Resistance IRM 903, 70 Hrs @ 150 °C (ASTM D471)		
Hardness Change, points	-40	-29
Tensile Strength Change, percent		-21
Elongation Change, percent		-25
Volume Change, percent	60	42.6
(XX-D471-EO16) Fluid Resistance IRM 901, 70 Hrs @ 150 °C (ASTM D471)		
Hardness Change, points	-	-4
Tensile Strength Change, percent	-	-10
Elongation Change, percent	-	-15
Volume Change, percent	-	6.9

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(XX-D573-A18) Heat Resistance, 70 Hrs @ 200 °C (ASTM D573)		
Hardness Change, points	-	7
Tensile Strength Change, percent	-	-22
Elongation Change, percent	-	-44
Volume Change, percent	-	-4.1
(XX-D573-A19) FLUID RESISTANCE FUEL C 50% ISO-OCTANE+50% TOLUENE, 70 Hrs @ 225 °C (ASTM D573)		
Hardness Change, points	-	9
Tensile Strength Change, percent	-	-33
Elongation Change, percent	-	-60
Volume Change, percent	-	-6.3
(XX-D395-B37) Compression Set, 22 Hrs @ 175 °C (ASTM D395)		
%, max	-	66.9
(D1329-TR10) TR Test D1329-TR10 ASTM D1329		
51mm die, 50% elongation, retraction 10% min	-	-44.3
(DIN53512) Rebound resilience resistance		
Button DIN 53512 Reound (Button)	-	41.2

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.