

Material Test Report

Compound S50-E601

Silicone, Cord, Red, FDA

Material Summary		
Material Type:	Silicone	
Durometer:	50	
Color:	Red	
Special Properties:	FDA Compliant, ZZ-R-765 Class 2A & 2B Grade 50	
Recommended Temperature Range (Static):	-53°C(-65°F) to 218°C (425°F)	
Cure System:	Peroxide	
Meets Specification:	ASTM D2000 M4GE505 A19 B37 EO16 EO36 F19	
Original Properties	Requirements	Typical Results
Hardness, Shore A, pts, ASTM D2240	50±5	49
Tensile Strength, psi, min, ASTM D412	725	945
Elongation, %, min, ASTM D412	250	405
HEAT RESISTANCE, A19 (70 hrs. @ 225°C)	Requirements	Typical Results
Hardness Change, pts, ASTM D573	+10 (max)	+3
Tensile Strength Change, %, ASTM D573	-30 (max)	+5
Elongation Change, %, ASTM D573	-30 (max)	-20
COMPRESSION SET, B37 (22 hrs. @ 175°C)	Requirements	Typical Results
ASTM D395, Method B, %	50 (max)	28.0
FLUID RESISTANCE, EO16 (70 hrs. @ 150°C)	Requirements	Typical Results
Hardness Change, pts, ASTM D471	0 to -15	-7
Tensile Strength Change, %, ASTM D471	-20 (max)	-12
Elongation Change, %, ASTM D471	-20 (max)	+3
Volume Change, %, ASTM D471	0 to +15	+11
FLUID RESISTANCE, EO36 (70 hrs. @ 150°C)	Requirements	Typical Results
Hardness Change, pts, ASTM D471	-35	-33
Volume Change, %, ASTM D471	+60	+48
LOW TEMP RESISTANCE, F19 (3 min. @ -55°C)	Requirements	Typical Results
Brittleness, ASTM D2137	Non-brittle	Pass

Compound Previously Known As: S50CD

Report Date: 3/23/2021

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.