



# MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	S50-B601	MATERIAL	Silicone
DUROMETER	50 Shore A	COLOR	Red
DESIGNATION	FDA	REPORT DATE	2022-01-10
TEMP RANGE	-55°C (-67°F) to 225°C (437°F)	CURE SYSTEM	Peroxide
SPECIFICATION	SAE AMS 3302H, Z1 Z2		

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15	-	Shore A	49	50 ±5
Hardness Change	D2240	-	points	-6	-15 to 5
Hardness Change	D2240	-	points	-4	±10
IRM 901 Oil, 70 Hrs @ 150 °C	D471-16a	-	-	-	-
Tensile Strength Change	D412	-	%	-9	-25 max
Elongation Change	D412	-	%	-8	-20 max
Tensile Strength	D412-16	-	MPa (PSI)	7.34 (1,065)	5 (701) min
Volume Change	-	-	%	5.4	0 to 15
Decomposition	-	-	-	-	-
Surface Tackiness	-	-	-	-	-
Heat age, 70 Hrs @ 225 °C	D573-04	-	-	-	-
Tensile Strength Change	D412	-	%	-18	-20 max
Elongation Change	D412	-	%	-21	-40 max
Weight Change	-	-	%	-0.7	-
Bend (flat)	-	-	-	-	-
Elongation at Break	D412-16	-	%	450	200 min
100% Modulus	D412-16	-	MPa (PSI)	1.51 (219)	-
Density	CNS 5341-96,Method A	-	Mg/m <sup>3</sup>	1.32	-
Tear resistance,(k N/m)	D624-00,Die B	-	kN/m (lbf/in)	19.2 (110)	6 (35) min

## COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression set, 70 Hrs @ 150 °C	D395-18,Method B	70 Hrs @ 150°C (302°F)	%	21.2	-

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low-Temperature Brittleness Point Test, 3 minute @ -65 °C	D2137-11,Method C	70 Hrs @ 150°C (302°F)	-	-	-

**ADDITIONAL APPROVALS**

AMS 3302G

Data shown is based on supplier testing of compound slabs/buttons and is provided for general reference only.