



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	S60-C601	MATERIAL	Silicone
DUROMETER	60 Shore A	COLOR	Red
DESIGNATION	FDA	REPORT DATE	2020-09-12
TEMP RANGE	-55°C (-67°F) to 200°C (392°F)	CURE SYSTEM	Peroxide
SPECIFICATION	ASTM D2000 M4GE605 A19 B37 EA14 EO16 EO36 F19		

PHYSICAL PROPERTIES					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240 - 15	-	Shore A	57	60 ±5
Tensile Strength	D412 - 16	-	MPa (PSI)	7 (1,015)	5 (725) min
Elongation at Break	D412-16	-	%	344	200 min
Specific Gravity	D297-15	-	g/cm ³	1.29	-

A19 – HEAT RESISTANCE					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-15	70h @ 437°F (225°C)	points	-3	-
Tensile Strength Change	D573-15	70h @ 437°F (225°C)	%	-17	-30 max
Elongation Change	D573-15	70h @ 437°F (225°C)	%	-20	-30 max

B37 – COMPRESSION SET					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395 - 18	22h @ 347°F (175°C)	%	16	50 max

EA14 – FLUID RESISTANCE, WATER RESISTANCE					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16	Water Resistance, 70h @ 212°F (100°C)	points	-2	±5
Volume Change	D471-16	Water Resistance, 70h @ 212°F (100°C)	%	3	±5

EO16 – FLUID RESISTANCE, IRM 901 OIL					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16	IRM 901 OIL, 70h @ 302°F (150°C)	points	-5	-15 to 0
Tensile Strength Change	D471-16	IRM 901 OIL, 70h @ 302°F (150°C)	%	-10	-20 max
Elongation Change	D471-16	IRM 901 OIL, 70h @ 302°F (150°C)	%	-6	-20 max

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Volume Change	D471-16	IRM 901 OIL, 70h @ 302°F (150°C)	%	7	0 to 15

EO36 – FLUID RESISTANCE, IRM 903 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16	IRM 903 OIL, 70h @ 302°F (150°C)	points	-20	-35 max
Volume Change	D471-16	IRM 903 OIL, 70h @ 302°F (150°C)	%	48	-

F19 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137	3 min @ -67°F (-55°C)	-	Pass	-

ADDITIONAL APPROVALS

-

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