



TEST REPORT COMPOUND S70BL70

MATERIAL: SILICONE RUBBER, 70 DUROMETER
COLOR: BLUE, USP CLASS VI, ISO 10993-5 COMPLIANT, PEROXIDE-CURED
TEMPERATURE RANGE: -55°C (-67°F) TO +200°C (392°F)
ASTM D2000 M5GE706 A19 B37 EA14 EO16 EO36 F19 G11 Z1 = USP CLASS VI

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	TYPICAL RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness,(shore A)	70±5	70	D2240-15
	Tensile Strength,psi(MPa)	870(6)(min)	1399(9.65)	D412-16
	Elongation,(%)	150(min)	396	D412-16
	Modulus at 100%,psi(MPa)		330(2.28)	D412-16
	Density,(Mg/m ³)		1.2	CNS5341-96A
G11	TEAR RESISTANCE	9kN/m(die B)(min)	22.32	
A19	HEAT AGE			D573-04
	70 hours @ 225°C			
	Hardness Change, pts.	+10(max)	+7	
	Tensile Strength Change, %	-25(max)	-19	
	Elongation Change, %	-30(max)	-7	
B37	COMPRESSION SET			D395-18
	22 hours at 175°C	25%(plied)(max)	12.7	
EA14	WATER RESISTANCE			D471-16A
	70 hours at 100°C			
	Hardness Change, pts.	±5	+1	
	Tensile Strength Change, %		+4	
	Elongation Change, %		+12	
EO16	IRM 901 OIL			D471-16a
	70 hours at 150°C			
	Hardness Change, pts.	-15~0	-6	
	Tensile Strength Change, %	-20(max)	-6	
	Elongation Change, %	-20(max)	+1	
EO36	IRM 903 OIL			D471-16a
	70 hours at 150°C			
	Hardness Change, pts.	-30(max)	-29	
	Tensile Strength Change, %		-28	
	Elongation Change, %		-26	
F19	LOW-TEMP BRITTLNESS POINT TEST	no crack	pass	D2137-11C
	3 minute @ -55°C			
	Sample type: T-50			
	Coolant: Isopropyl alcohol			
FRICTION	LOW TEMPERATURE PROPERTY			
	FRICTION RESISTANCE			D1894
	ASTM D1894			
	Static Coefficient		0.46	
Kinetic Coefficient		0.23		

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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.