O-RINGS, INC.
SINCE 1958

O-RINGS, INC.
3311 PEPPER AVE
LOS ANGELES, CA 90064
TEL (323) 343-9500
FAX (323) 343-9505

TECHNICAL REPORT S70 – Silicone 70 Durometer

ORIGINAL PHYSICAL PROPERTIES	ASTM D2000/SAE J200 7GE 707 A19, B37, E16, E36, F19, G11, L14	S70
Hardness, Shore A, pts. 70 +/- 5	67	
Tensile Strength, psi. min.	700	889
Elongation, %, min.	150	160
HEAT AGING, ASTM D573		
70 HRS. @ 437°F		
Hardness Change, pts. +/-15	+ 3	
Tensile Strength Change, %	+/-30	
Elongation Change, %, max.	-50	-28.1
OIL IMMERSION, ASTM D471		
ASTM OIL #3, 70 HRS. @ 302℉		
Volume Change, % max. +80	+32.3	
COMPRESSION SET, ASTM D395		
22 HRS. @ 347℉, PLIES		
% of Original Deflection, max.	50	15.0
SUFFIX REQUIREMENTS		
A19 HEAT RESISTANCE, ASTM D573		
70 HRS. @ 437°F		
Hardness Change, pts., max.	+10	+3
Tensile Strength Change, %, max.	-25	-0.3
Elongation Change, % max.	-30	-28.1
B37 COMPRESSION SET, ASTM D395		
22 HRS. @ 347℉, PLIES		
% of Original Deflection, max.	30	15.0
E16 FLUID RESISTANCE, ASTM d471		
ASTM OIL #1, 70 HRS. @ 302℉		
Hardness Change, pts.	0 to -15	- 5
Tensile Strength Change, %, max.	-20	- 7.9
Elongation Change, %, max.	-20	-12.5
Volume Change, % 0 to +15	+ 3.2	
E36 FLUID RESISTANCE, ASTM D471		
ASTM OIL #3, 70 HRS. @ 302°F		
Hardness Change, pts., max.	-40	-17
Volume Change, %, max.	+60	+32.3
F19 LOW TEMPERATURE, ASTM D746		
PROCEDURE B		
3 min. @ -67℉	Pass	Pass
G11 TEAR RESISTANCE, ASTM D624		
DIE B, ppi. min.	50	98
L14 WATER RESISTANCE, ASTM D471		
70 HRS. @ 212℉		
Hardness Change, pts.	+/- 5	+ 1
Volume Change, %	+/- 5	-0.4