



O-Ring Division
2360 Palumbo Drive
Lexington, KY 40509
(859) 269-2351

Date: 1/25/2009
Compound: LM159-70
Batch: 31002825
Part Size: AS568-214
Specification: MIL-DTL-25988C
Test Lab Location: Lexington
LTR Number: 87530
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LABORATORY TEST REPORT

MIL-DTL-25988C Type I Grade 70

Original Physical Properties

Hardness, Shore A, pts.
Tensile Strength, psi min
Ultimate Elongation, % min
Specific Gravity
TR-10, °F max

Test Method	Specification Limits	Test Results
ASTM D2240	70±5	71
ASTM D1414	750	854
ASTM D1414	125	249
ASTM D297	As Determined	1.56
ASTM D1329	-70	-83

Compression Set, 70 hrs. @ 75 ± 5°F

Compression set, % max
Under 0.110 inch
Over 0.110 inch

Test Method	Specification Limits	Test Results
ASTM D1414		
ASTM D395		
	15	
	15	14

Air Aged, 70 hrs. @ 392 ± 5°F

Hardness Change, pts.
Tensile Change, % max
Elongation Change, % max
Weight Loss, % max

Test Method	Specification Limits	Test Results
ASTM D1414		
ASTM D573		
	+10, -5	+4
	-25	-11
	-25	-23
	2	0

Compression Set, 22 hrs. @ 347 ± 5°F

Compression set, % max
Under 0.110 inch
Over 0.110 inch

Test Method	Specification Limits	Test Results
ASTM D1414		
ASTM D395		
	30	
	30	26

Oil Aged

AMS3021, 70 hrs. @ 302 ± 5°F

Hardness Change, Shore A pts.
Tensile Strength Change, % max
Ultimate Elongation Change, % max
Volume Change, %
Compression Set, % max
Under 0.110 inch
Over 0.110 inch

Test Method	Specification Limits	Test Results
ASTM D1414		
ASTM D471	±15	-6
ASTM D471	-40	-7
ASTM D471	-25	-4
ASTM D471	+1 to +15	+9
ASTM D395		
	30	
	30	21

Oil Aged

AMS2629 Type 1, 70 hrs. @ 75 ± 5°F

Hardness Change, Shore A pts.
Tensile Strength Change, % max
Ultimate Elongation Change, % max
Volume Change, %

Test Method	Specification Limits	Test Results
ASTM D1414		
ASTM D471	-20	-8
ASTM D471	-50	-17
ASTM D471	-40	-14
ASTM D471	+1 to +25	+19

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"The recording of false, fictitious, or fraudulent statements or entries on this report may be punishable as a felony under federal law."

Tested By: 
David Stidham Lab Tec II

Approved By: 
Linda Ziegler, Division Technical Director