



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

Report Date: 10/9/2009
 Test Date: 7/31/2009
 Compound: NM304-75
 Batch: 80103258
 Part Size: 2-214
 Specification: MIL-P-25732-C
 Test Lab Location: Lexington
 LTR Number: 63909
 Page: 1 of 1

LABORATORY TEST REPORT

Original Physical Properties

	Test Method	Spec Limits	Test Results
Shore A Durometer Points, min.	ASTM D2240	75 ± 5	78
Tensile Strength, Psi min.	ASTM D412	1350	1861
Elongation % min.	ASTM D412	160	185
Tensile Stress (Modulus)100 % elongation,min.	ASTM D412	500	744
Specific Gravity	ASTM D297	As Determined	1.29
Temperature Retraction, TR-10 50% elongation and 10% return, °F max.	ASTM D1329	-49	-53

Corrosion and adhesion

	Spec	Test Results
MIL-S-18729 4130 Steel, Aircraft Quality	AMS-P-25732	
QQ A-250/4 Aluminum Alloy 2024	Slight on 4130	None
QQ A-250/11 Aluminum Alloy 6061	None	None
QQ A-250/12 Aluminum Alloy 7075	None	None
AMS-5630 440C Stainless Steel	None	None
AMS-5513 304 Stainless Steel	None	None

OIL RESISTANCE, METHOD D471

Mil-H-5606, 70 Hrs. @ 275°F

	Test Method	Spec	Test Results
Hardness Change, pts	ASTM D471	+5 to -15	-9
Tensile Strength Change, % max.		-50	-30
Elongation Change, % max.		-35	-21
Volume Change, %		+10 to +20	+17
Compression Set, 25% deflection % Of Original Deflection, max.		55	44
Temperature Retraction, TR-10 50% elongation and 10% return, °F max.		-49	-60

OIL RESISTANCE, METHOD D471

Mil-H-83282, 70 Hrs. @ 275°F

	Test Method	Spec	Test Results
Hardness Change, pts	ASTM D471	±10	+2
Tensile Strength Change, % max.		-40	-27
Elongation Change, % max.		-45	-34
Volume Change, %		0.5 to 15	+4
Compression Set, 25% deflection % Of Original Deflection, max.		55	52
Temperature Retraction, TR-10 50% elongation and 10% return, °F max.		-47	-65

"Purchaser use only. Reproduce only in full. Data pertains to items referenced only."

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

Tested By: 
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Approved By: 
 Linda Ziegler, Division Technical Director