



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

Date: 9/26/2007
Compound: NM506
Batch: 80063384
Part Size: 2-214
Specification: AMS-7271 H
Customer:
Test Lab Location: LEXINGTON
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LABORATORY TEST REPORT

Original Physical Properties

Hardness, Shore A, pts.
Tensile Strength, psi.min
Ultimate Elongation, % min
Specific Gravity
Corrosion

Test Method	Spec Limits	Test Results
ASTM D2240	65±5	64
ASTM D1414	1200	1749
ASTM D1414	200	364
ASTM D297	+0.02	1.24
ASTM D1414	Nil	Nil

Aromatic and Non-Aromatic Fuel:

Fuel A, 70 hrs @ 68-86°F	ASTM D471	Positive Swell	+11
Fuel B, 70 hrs @ 68-86°F			
Volume Change % max		+40 to +70	+59
Dry Out, 48 hrs @ 158°F (after 70 hr @ R.T. Fuel B)			
Volume change % max.		-15	-10
Fuel A, 5 hrs @ 68-86°F (after 48 hr dryout)		-5	-1
Volume Change % max.			

Compression Set

70 hrs. @ 257°F

Percent of Original Deflection, % max
Ring Cross Section Diameter, inch
0.066 to 0.110, in., incl.
Over 0.110 in.

ASTM D395 Method B

85	--
75	64

Dry Heat Resistance

70 hrs. @ 257°F

Hardness Change, Shore A, pts
Tensile Strength Change, % max.
Elongation Change, % max.
Bend (Flat)

ASTM D573	0 to +15	+10
	-25	+27
	-50	-36
	No Cracking or Checking	No Cracking or Checking

Simulated Component Test:

AMS 7271 H	Pass	Pass
** See Attached Report		

Dry Neckdown Test:

AMS 7271 H	Pass	Pass
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Wet Neckdown Test:

AMS 7271 H	Pass	Pass
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Low Temperature Flexibility

As Received, Max. -50°C (-58°F)
After immersion in Aromatic fuel and drying, max. -47°C (-53°F)

Pass	Pass
Pass	Pass

"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."

****ATTACHED TEST REPORT**

Tested By: 
Tammy Blount, Laboratory Technician II

Approved By: 
Linda Ziegler, Division Technical Director