



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



CONTACT US

Date: 2/5/2004  
Compound: AS NOTED  
Size: 2-214  
Page: 1 of 1

## LABORATORY TEST REPORT

	AMS-R-25988	L1223-60	LM158-60
<u>Original Physical Properties, ASTM D412, D2240</u>	<u>Requirement</u>	<u>Test Results</u>	<u>Test Results</u>
Hardness, Shore A, pts.	60 ± 5	60	60
Tensile Strength, psi, min	700	1066	884
Ultimate Elongation, %, min	150	266	327
Specific Gravity	1.46 ± 0.03	1.46	1.48
<u>Low-Temperature Resistance, ASTM D1329</u>			
Temperature Retraction, TR, Point, Max	-57°C (-70°F)	-60.7°C (-77.3°F) -60.1°C (-76.2°F)	
<u>Compression Set: (70 h @ 75±5°F), ASTM D395 Method B</u>			
Percent of Original Deflection, max., %			
Under 0.110 inch	20	11.7	8.8
Over 0.110 inch	15	5.5	11.8
<u>Dry Heat Resistance: (70 h @ 392°F), ASTM D573</u>			
Hardness Change	+10, -5	0	4
Tensile Change, %, max	-25	-11.2	-16
Elongation Change, %, max	-25	-0.3	0
Weight Loss, %, max	-2	-1.8	-0.57
<u>Compression Set, (22 h @ 347°F), ASTM D395 Method B</u>			
Percent of Original Deflection, max., %			
Under 0.110 inch	45	15.2	12.1
Over 0.110 inch	40	11.8	23.3
<u>AMS 3021, 70h @ 302°F</u>			
Hardness Change	±15	-6	-10
Tensile Change, %, max	-45	-26.8	-22
Elongation Change, %, max	-30	-6.6	-5
Volume Change, %, max	+1 to +15	+6.8	+11.5
COMPRESSION SET, %, max			
Under 0.110 inch	50		
Over 0.110 inch	45	6.7	16.4
<u>Aromatic Fuel Resistance: Fuel B, (22 h @ 73°F), ASTM D471</u>			
Hardness Change	-20	-5	-10
Tensile Change, %, max	-50	-37.2	-24
Elongation Change, %, max	-40	-23.8	-10
Volume change, %	+1 to +25	+18	+23.3

Prepared By: Tim Pingleton  
Tim Pingleton R&D Engineer

Approved By: Dale M. Ashby  
Dale M. Ashby, Division Technical Director